



# SAKATA® VEGETABLE CATALOG

QUALITY • RELIABILITY • SERVICE

PREMIUM

# BALTIC

## SUBSTRATES

### SAKATA SOLUTIONS® – THE SOLUTION TO YOUR GROWING NEEDS

Sakata Seed has been associated with the finest innovative ornamental and vegetable varieties for over 100 years. Our deep knowledge of agronomy and horticulture and years of experience resulted in careful selections of substrates for our own greenhouse growing. We are pleased to bring that experience to your crops with our Sakata Solutions Premium Baltic Peat Substrates.

**BALTIC PEAT: HARVESTED FROM LATVIA AND ESTONIA IN NORTHERN EUROPE. BLOCK CUT FOR MAXIMUM FIBER INTEGRITY AND MINIMAL DUST. SUPERIOR AIR CAPACITY AND WATER RETENTION FOR OPTIMAL ROOT GROWTH.**

**LESS PERLITE: AVAILABLE WITH PERLITE OR PERLITE FREE. CAREFUL BLEND OF PEAT FIBERS = PERFECT AIR POROSITY WITH MINIMAL PERLITE ADDED. PERLITE FREE OPTIONS AVAILABLE**



#### SAKATA SOLUTIONS® PLUG & GERMINATION VEGETABLE MIX

Ideal for vegetable transplants in plugs or Ellepots.

Finely textured substrate providing optimal air space and water retention.

Balanced for pH, low nitrogen charge, all major and micronutrients, wetting agent.



#### SAKATA SOLUTIONS® ALL PURPOSE

A general purpose mix formulated with a blend of peat moss fiber lengths to provide high aeration without sacrificing excellent water retention.

Balanced for pH, all major and micronutrients, wetting agent.



#### SAKATA SOLUTIONS® BALTIC PEAT MIXING YOUR OWN SUBSTRATES?

Top quality Baltic peat available in grades from 1 mm to 40 mm.

Check our website at [www.sakatasolutions.com](http://www.sakatasolutions.com) for additional information and a full list of substrates.  
**EXPECT ONLY THE BEST FROM SAKATA**





## TABLE OF CONTENTS

---

ARUGULA	54
BABY LEAF	2
BASIL	34
BEAN	37
BEET	4
BROCCOLI	8
BUNCHING ONION	57
CABBAGE	16
CARROT	22
CAULIFLOWER	26
CHINESE CABBAGE	28
CILANTRO	34
COLLARD	30
CUCUMBER	31
DILL	34
EGGPLANT	31
GREENS	32
HERBS	34
KALE	36
KOHLRABI	37
KOMATSUNA	37
LEAFY GREENS: CEA	38
LETTUCE	44
MELON	48
MUSTARD	54
OKRA	54
ONION	55
PAK CHOI	58
PARSLEY	35
PEPPER, HOT	60
PEPPER, SWEET	66
PUMPKIN	74
RADISH	80
SPINACH	84
SQUASH, SUMMER	93
SQUASH, WINTER	90
SWISS CHARD	96
TOMATO	98
TURNIP	32
WATERMELON	108
TERMS	114





PG. 6

**BULL'S BLOOD** BEET

PG. 6

**FRESH PAK** BEET

PG. 6

**FRESH START** BEET

PG. 5

**KESTREL** BEET

PG. 86

**C2-606** SPINACH

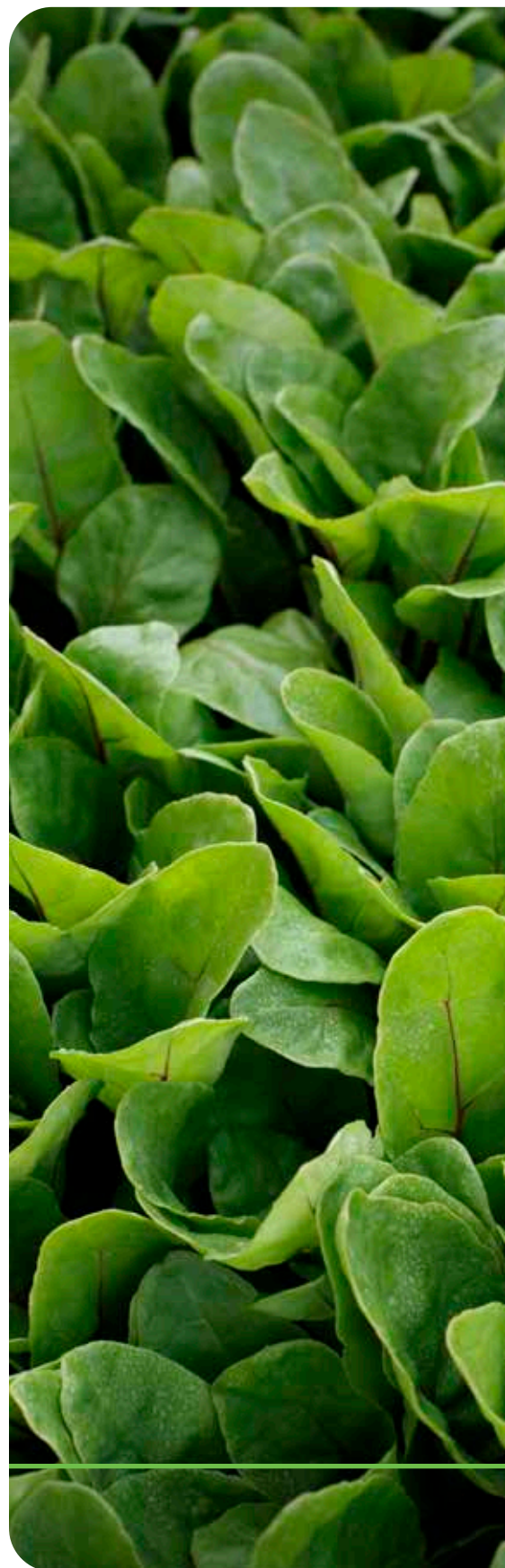
PG. 86

**COUNTRYSIDE** SPINACH

PG. 86

**DARKSIDE** SPINACH

PG. 85

**LAKESIDE** SPINACH





**FRESH START**



PG. 85

**OCEANSIDE** SPINACH



PG. 85

**RIVERSIDE** SPINACH



PG. 85

**SEASIDE** SPINACH



PG. 96

**ELDORADO** SWISS CHARD



PG. 96

**FIRE FRESH** SWISS CHARD



PG. 97

**RHUBARD** SWISS CHARD



PG. 97

**RUBY FRESH** SWISS CHARD



PG. 97

**SILVERADO** SWISS CHARD





## RED ACE

BEET: BABY LEAF / 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



## FALCON

BEET: 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

BEET: 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 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



## TOUCHSTONE GOLD

BEET: 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





## KESTREL

BEET: BABY LEAF / MATURE

Kestrel is a medium maturing hybrid beet variety, produces high quality and uniform with smooth skin and deep red color. Well appreciated for its wide adaptability, from warm, continental, sub-tropical to cooler production areas. Adapted for cooler season production. Good field holding ability. Excellent candidate for baby beet production. This variety can also be stored for extended periods of time when harvested at full maturity.

- High quality globe shaped roots
- Wide adaptability
- Good storage variety, good processing variety



## CHIOGGIA GUARDSMARK

BEET: 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

BEET: 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

BEET: 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





## FRESH PAK

BEET: BABY LEAF

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
- Excellent veination



## VULTURE

BEET: BABY LEAF / MATURE

Vulture has a 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. Its uses include processing, fresh market, home garden, or tops for baby leaf markets.

- Half long cylindrical
- Good flavor
- Excellent yields



## BULL'S BLOOD

BEET: 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



## EAGLE

BEET: BABY LEAF / MATURE

Eagle is an early-mid maturing variety that has nice smooth uniform, globe-shaped roots. It has a small to medium-sized crown and tap root. Eagle has a medium dark red interior with little to no zoning. This variety is perfect for beet processors, baby beet market, fresh market growers and home gardeners.

- Very uniform
- Nice crown and tap root attachment
- Globe-shaped root



## FRESH START

BEET: 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



## INSIDE THE INFORMATION

VARIETY	TYPE	DAYS TO MATURITY*	INTERIOR COLOR / ROOT SHAPE	CROWN & TAP ROOT SIZE	TOP HEIGHT	LEAF COLOR	DISEASE RESISTANCE	USES & REMARKS
BULL'S BLOOD <sup>OP</sup>	Micro / Baby Leaf	16-19 / 28-32	Bright red / Top	Medium-large	Medium-tall	Dark red		Great variety for home garden.
CHIOGGIA GUARDSMARK <sup>OP</sup>	Mature	85-90	Purple & white zoning / Flat Egyptian	Medium-large	Medium	Light green		A perfect variety for fresh market, home garden and specialty markets.
DETROIT SUPREME <sup>OP</sup>	Micro / Mature	13-16 / 85-90	Deep red / Globe	Medium-large	Tall	Green		Great for fresh markets and home gardeners due to its large roots.
EAGLE	Baby Leaf / Mature	25-35 / 80-85	Red / Globe	Small-medium	Medium	Green		Great for processing and fresh markets due to its refined tops and roots.
EARLY WONDER TALL TOP <sup>OP</sup>	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.
FALCON	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.
FRESH PAK	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.
FRESH START	Indoor BL / Baby Leaf	23-26 / 25-35	–	–	–	Dark green	HR: Pfb	A faster growing baby leaf variety with a good disease package.
KESTREL	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.
MERLIN	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.
RED ACE	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.
ROBIN	Baby Leaf / Mature	25-35 / 60+	Deep red / Globe	Small-medium	Short	Dark green		A perfect variety for whole baby beet production due to its ability to form a uniform globe shape root at an early stage.
TOUCHSTONE GOLD <sup>OP</sup>	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.
VULTURE	Baby Leaf / Mature	23-26 / 85-90	Deep red / Cylindrical and blocky	Small-medium	Medium	Dark green	IR: Cb	New half-long cylindrical roots are perfect for processing, fresh markets and specialty markets.

Disease terminology: HR = High Resistance, IR = Intermediate Resistance. Disease code: 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. <sup>OP</sup> = 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 a product 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.

## GODZILLA





## EMPIRE

**BROCCOLI: CROWN CUT / SHORT TRIM**

Empire (SBC8590) 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



## KINGDOM

**BROCCOLI: MULTI-USE**

Kingdom (SBC6317) is an excellent choice for growers needing early maturity and has very good crown quality for an early maturing 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



## SUPER DIAMANTE

**BROCCOLI: FRESH / FROZEN**

Super Diamante is a special variety that produces very heavy, small beaded, short pedicled heads with excellent color. This variety is mid-late maturing and is well suited for both the fresh and frozen markets.

- Heavy headed
- Fresh or frozen markets



## DYNASTY

**BROCCOLI: 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





## AVENGER

**BROCCOLI: 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



## 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, Pacific Northwest, East Coast/ Eastern Canada 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)





## EMERALD STAR

**BROCCOLI: 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



## CENTENNIAL

**BROCCOLI: 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



## GODZILLA

**BROCCOLI: MULTI-USE**

Godzilla is a unique new 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

## EMERALD CROWN

**BROCCOLI: 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





## EASTERN CROWN

### BROCCOLI: 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



## EASTERN MAGIC

### BROCCOLI: MULTI-USE

Eastern Magic is a multi-use variety showing excellent performance in the Northeastern U.S. and Canada regions. It is high-domed, has great blue-green color and good heat tolerance.

- Performs well in long day length and moderate heat
- Excellent blue-green color



## EXPO

### BROCCOLI: CROWN CUT / SHORT TRIM

This exciting broccoli variety is an exceptional choice for crown cut and short trim. Expo is a late-maturing variety with a tight, heavy dome, short bracts and small, uniform green beads. It performs well in warm to cool conditions and overwinter.

- For crown cut and short trim
- U.S. Patent Number 6,693,229



## EMERALD JEWEL

### BROCCOLI: 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







## ENDURANCE

**BROCCOLI: 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



## GREEN GOLD

**BROCCOLI: 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



## GREEN MAGIC

**BROCCOLI: 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



## GYPSY

**BROCCOLI: 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





## MARATHON

### BROCCOLI: 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



## MAVERICK

### BROCCOLI: 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



## DESTINY

### BROCCOLI: CROWN CUT

Destiny is in the mid-early maturity class and performs well for fall harvest in the Desert Southwest. Dwarf plants produce broccoli with a nice, smooth dome and round shape. Destiny has medium-small beads with good heat tolerance.

- Good head quality
- Heat tolerant
- U.S. Patent Number 6,693,229



## DIPLOMAT

### BROCCOLI: 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



## PATRON

### BROCCOLI: 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



## INSIDE THE INFORMATION

VARIETY	DAYS TO MATURITY FROM DIRECT SEED*	PLANT HEIGHT	HEAD COLOR	HEAD CHARACTERISTICS	BEAD SIZE	DISEASE RESISTANCE	USES & REMARKS
AVENGER	102	Tall	Blue-green	Domed, dense	Extra-small		High percentage of crown cut, very attractive head and excellent holding ability. Excellent for processing.
CENTENNIAL	97-100	Medium	Green	Domed, dense, smooth	Small		Excellent variety for crown cut and processing.
DESTINY	89	Compact	Medium green	Domed, smooth	Small		Dynasty has a medium plant size with smooth, well dome-shaped, medium green heads, and anthocyanin free.
DIAMANTE	105	Tall	Blue-green	Domed, uniform	Small		Excellent variety for crown cut and processing.
DIPLOMAT	102	Tall	Blue-green	Semi-domed	Small		Performs well in long day length and moderate heat.
DYNASTY	100	Medium	Green	Semi-domed	Medium-small		Excellent variety for fresh market and processing. Widely adaptable.
EASTERN CROWN	94	Compact	Blue-green	Domed	Small		Outstanding variety for East Coast.
EASTERN MAGIC	97	Tall	Blue-green	High dome	Medium-small		Excellent performance in Northeastern U.S. and Canada.
EMERALD CROWN	93	Compact	Blue-green	Semi-domed	Small		Produces excellent quality crown cuts/short trim product in all NAFTA regions. Highly resistant to purpling.
EMERALD JEWEL	110	Tall	Green	Domed, dense	Small	IR: Cb	Multi-use variety. Intermediate resistance to some races of clubroot.
EMERALD STAR	105	Medium	Blue-green	Domed, uniform	Small		Crown cut/Asian trim type with fine-beaded, round shape.
EMPIRE	100	Medium	Blue-green	Domed, uniform	Small		Excellent choice for the crown cut/short trim markets.
ENDURANCE	102	Medium	Green	Domed, dense	Small		Excellent for crown cut/short trim.
EXPO	102	Medium	Green	Domed, dense	Small		Excellent variety for crown cut and processing.
GODZILLA	100	Medium large	Green	Large, very heavy	Small		Godzilla forms very heavy, small-beaded heads in combination with a mid-high head position.
GREEN GOLD	100	Medium	Green	Domed, dense	Small		Excellent harvest uniformity.
GREEN MAGIC	90	Medium	Blue-green	Semi-domed	Medium-small		Excellent variety for fresh market and processing. Widely adaptable.
GYPSY	90	Tall	Green	Domed, smooth	Medium-small	IR: Cb	Wide regional adaptability.
IMPERIAL	105	Tall	Dark green	Semi-domed	Small		Performs well in long days. Good for crown cut and processing.
KINGDOM	75	Medium	Green	Domed	Small		Excellent choice for growers needing early maturity and has very good crown quality for an early maturing variety.
MARATHON	97	Medium tall	Blue-green	Domed, dense	Small		Uniform and sizes well in cold, overwinter production. Multi-use.
MAVERICK	95	Tall	Medium green	Domed, dense	Small		Multi-use variety. Vigorous plant.
MILLENNIUM	105	Tall	Blue-green	High dome, uniform	Extra-small		Excellent for crown cut and short trim.
PATRON	94	Medium	Dark blue-green	Domed, high	Small		Good for summer to fall harvest. Tolerant to brown bead/hollow core.
SUPER DIAMANTE	105	Tall	Blue-green	Domed, uniform	Small		Super Diamante is an excellent choice for crown and processing markets (both fresh and frozen).

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

\* The days to maturity are calculated as an average of fall harvest dates for direct seeded broccoli in Salinas, CA. Some sowing dates may result in earlier or later maturity. Overwinter production can add over 20 days to the numbers listed.



## SAKATA CABBAGE

Sakata offers an array of widely adaptable cabbage varieties specifically bred and extensively trialed to ensure dependable performance, high yield and market fit. No matter how you slice it, Sakata has the perfect cabbage variety for your needs, backed by our stellar reputation of quality, reliability and service!

Sakata varieties have been bred to address the needs of growers, no matter the region or market. With high yields, extreme uniformity, great holding ability and proven disease packages, our offering has something for every program.



## SUPREME VANTAGE

**CABBAGE: 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



## BLUE VANTAGE

**CABBAGE: 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 cole-slaw 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

CHARMANT





## GRAND VANTAGE

**CABBAGE: 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



## CRYSTAL VANTAGE

**CABBAGE: FRESH**

This green, round cabbage will produce compact 'mini' heads when planted closely (about 8-inch centers). When planted at standard spacing, the heads will grow to full size yet still retain their nice, sweet flavor. Crystal Vantage is easy to grow, early to mature and disease resistant.

- Nice eating qualities for fresh market



## VANTAGE POINT

**CABBAGE: 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



## FAST VANTAGE

**CABBAGE: 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

**CABBAGE: 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

**CABBAGE: 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.





## STORAGE #4

**CABBAGE: 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



## SUPERSTAR

**CABBAGE: 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

**CABBAGE: 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

**CABBAGE: 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





## SUPERSTOR 112

**CABBAGE: STORAGE / PROCESSING**

Great for mid to long term storage, this green cabbage is a high yielder with a vigorous upright plant habit. This clean growing hybrid is Fusarium yellows race 1 resistant. For best storage results, SuperStor 112 should be transplanted slightly later in the planting season.

- Good for mid to long-term storage
- Vigorous plant with high yields



## ULTRA VANTAGE

**CABBAGE: STORAGE / PROCESSING**

Ultra Vantage is a storage type with many strengths, including large head size and a dense inner core. It has a robust and hearty plant habit, strong stalk and a high head position making it an excellent performer in the field.

- Suitable for storage
- Strong plant
- Large head size



## ROYAL VANTAGE

**CABBAGE: 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



## GREENBOY

**CABBAGE: 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



## BOBCAT

**CABBAGE: 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



## RED JEWEL

**CABBAGE: 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



## 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



## 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





## INSIDE THE INFORMATION

VARIETY	TYPE	RELATIVE MATURITY*	USE	HEAD COLOR	HEAD SIZE	DISEASE RESISTANCE	USES & REMARKS
BOBCAT	Green / Round	Mid	Fresh, processing	Blue-green	Medium-large	HR: Foc: 1 T: TpB	Wide adaptability.
BLUE VANTAGE	Green / Round	Mid	Fresh, processing	Blue-green	Medium-large	HR: Foc: 1 T: TpB	Wide adaptability, good for direct sow.
CHARMANT	Green / Round	Early	Fresh	Green	Medium	HR: Foc: 1 T: TpB	Wide adaptability, great holding ability.
CRYSTAL VANTAGE	Green / Round	Early	Fresh	Green	Small	HR: Foc: 1	Nice eating qualities.
EMBLEM	Green / Round	Mid-late	Fresh, processing	Gray-green	Medium-large	HR: Foc: 1	Good internal quality, prefers warm weather.
FAST VANTAGE	Green / Round	Very early	Fresh	Green	Medium		Excellent early cabbage, heat tolerance.
GRAND VANTAGE	Green / Round	Mid-late	Fresh	Green	Medium-large	HR: Foc: 1	Nice, tight wrapper. Wide adaptability.
GREENBOY	Green / Round	Mid-late	Fresh	Green	Medium	HR: Foc: 1	Heat and rain tolerant.
PRIMO VANTAGE	Green / Round	Early	Fresh, processing	Green	Medium	HR: Foc: 1	Excellent uniformity. Good holding ability.
RED JEWEL	Red / Round	Mid	Fresh, processing	Garnet red	Medium-large		Early maturity, good size and color.
ROYAL VANTAGE	Green / Round	Mid-late	Fresh, processing	Blue-green	Medium-large	HR: Foc: 1	Grows well under cool weather or poor soil conditions.
SAVOY KING	Savoy / Green / Semi-flat	Mid	Fresh	Green	Medium-large	T: TpB	Excellent yields. Attractive savoy type.
STELLAR VANTAGE	Green / Round	Mid-late	Fresh	Green	Medium	HR: Foc: 1 IR: Xcc	Good holding ability. Intermediate resistance to Xcc.
STORAGE #4	Green / Round	Late	Fresh, storage, processing	Dark green	Medium-large	HR: Foc: 1	Wide adaptability, excellent holding ability.
STONEHEAD	Green / Round	Early	Fresh	Gray-green	Medium	T: TpB	Compact, excellent holding ability.
SUPERSTAR	Green / Round	Mid-late	Fresh, processing	Green	Medium-large	HR: Foc: 1	Excellent holding ability with thick leaves.
SUPERSTOR 112	Green / Round	Very late	Storage, processing	Blue-green	Large	HR: Foc: 1	Mid to long term storage. Vigorous plant with high yields.
SUPREME VANTAGE	Green / Round	Mid-early	Fresh, processing	Green	Medium-large	HR: Foc: 1	Good holding ability.
VANTAGE POINT	Green / Round	Late	Fresh, kraut	Blue-green	Large	HR: Foc: 1 T: TpB	Good yields with late maturity.
ULTRA VANTAGE	Green / Round	Very late	Storage, processing	Green	Large	HR: Foc: 1	Strong plant with large head size.

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.

## TRITON

### CARROT: CUT & PEEL

This carrot is known for its superb taste and texture. Triton has strong, erect tops that are dark green in color. Its roots are 9 to 10 inches long and .5 to 1 inch in diameter. This carrot is medium-orange and quite cylindrical in shape with a semi-blunt tip.

- Superb taste and texture



## VIPER

### CARROT: CUT & PEEL

Viper was bred for higher density plant populations and maintains its long length (12-14 inches average) to maximize yield for two inch pieces. It is bright orange with a small, indistinctive core and incredible top strength with good stem attachment for easy harvesting. Viper provides a similarly terrific consumer experience, combining a great flavor profile and very crisp texture.

- Long length; 12-14 inches average



## DUQUESA

### CARROT: NANTES

New to the Sakata line-up – Duquesa! Nantes type. Excellent top strength with a very smooth exterior. Vibrant interior and exterior color. Excellent flavor and crisp texture. 15-16 cm long. Adaptable in many areas with mild to moderate climate.

- Excellent sweet flavor and texture
- Strong tops for machine harvest
- Uniform roots for maximum yield



## INTREPID

### CARROT: FRESH / CELLO

Intrepid is a 10 inch cello type that displays excellent tops as well as a smooth exterior. This variety has a good root shape and vibrant orange color. It is widely adaptable and works well for all seasons in California.

- Good root shape
- Very smooth
- Strong tops





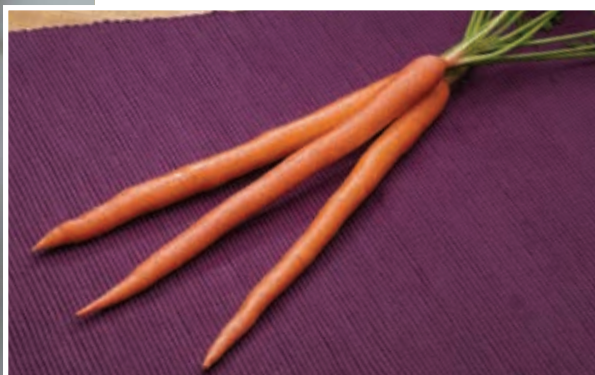


## OLYMPUS

CARROT: CELLO

Olympus is a cello-type that is outstanding for bunching. It has great color combined with a smooth finish. The taste is outstanding with a very crisp texture. Olympus is very uniform. Yield potential is high with this classy carrot.

- Very crisp texture
- Outstanding taste
- High yield potential



## COPPERHEAD

CARROT: CUT & PEEL

Copperhead is a nice variety for any cut and peel growing area. This variety offers good yields of medium tall, 10 to 11 inches long, slightly tapered roots with a semi-blunt tip. Copperhead has vigorous tops, great root length and color.

- For many cut and peel growing areas
- Vigorous tops and great root length
- Great color

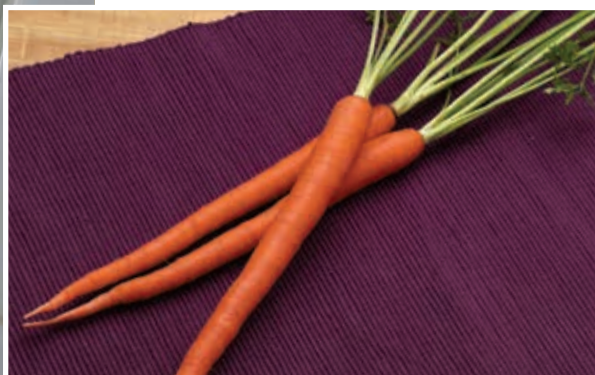


## FUERTE

CARROT: NANTES

Fuerte is known for its nice uniform shape with strong tops. Fuerte offers high yields, with blunt tips and some shoulder. Tops are tall and medium green in color. Roots are cylindrical in shape and medium orange in color. Fuerte is an excellent Nantes variety that compares favorably to other Nantes-types.

- Uniform shape with strong tops, as well as blunt tip with some shoulder
- Offers high yields



## ZEUS

CARROT: CUT & PEEL

This is an exciting cut and peel variety. Zeus has nice flavor with good texture, size and shape. It has strong tops with medium, light green coloring. Zeus' roots are 9 to 11 inches long, .5 to 1 inch in diameter and are slightly tapered with a semi-blunt shape.

- Peeler shape
- Nice tasting with good texture





## NEPTUNE

CARROT: FRESH / CELLO

Neptune is a broad-shouldered, heavy yielding Imperator for cello, jumbo and bunching. This variety averages eight to ten inches in length. Neptune is early maturing with extended field-holding ability, and is very adaptable.

- Imperator type
- Extended field holding ability
- Very adaptable



## HERCULES

CARROT: CHANTENAY

Hercules is an early-maturing, extremely smooth Chantenay-Kuroda type hybrid. A high yielder, it is an excellent juicing carrot. The medium-orange roots are about 1.5 inches in diameter and about 7 to 7.5 inches long. The roots have good flavor, with Brix averaging 8.5 to 9.

- Chantenay type
- Strong tops
- Works well where growing longer carrots can be challenging



## INGOT

CARROT: NANTES

Ingot is a long Nantes hybrid with both high color and flavor. This variety is well suited to main crop bunching, bulk and pre-pack in traditional Nantes markets. It received highest marks for its "sweet flavor and texture" in a taste test. Ingot is an ideal choice for home garden and specialty. This variety boasts high packout and yield. Its high carotene levels of 120 – 170 ppm lead to deep exterior/interior color.

- Nantes type
- Recognized for excellent taste



## SAMANTHA

CARROT: BERLICUM / IMPERATOR

Samantha is a Berlicum/Imperator-type hybrid. It has mid-early maturity and medium-orange color with sweet flavor. This variety has medium to strong top attachment, with roots that are smooth. Samantha's yield is very good with good field-holding ability and strong tops.

- Berlicum/Imperator type
- High yields with good field-holding ability
- Good flavor and appearance



## INSIDE THE INFORMATION

VARIETY	TYPE	RELATIVE MATURITY*	LENGTH / DIAMETER	INTERIOR COLOR	SHAPE	TOP LENGTH
COPPERHEAD	Cut & Peel	Mid	10-12" / .75-1.25"	Orange	Cylindrical, slight taper, semi blunt tip	14-18"
DUQUESA	Nantes	Early/ Mid-early	5-7" / 1.25-1.5"	Orange	Cylindrical, blunt tip	16-20"
FUERTE	Nantes	Mid	6-9" / 1.5-2.5"	Orange	Cylindrical, blunt tip	18-24"
HERCULES	Chantenay	Mid-late	7-7.5" / 1.5"	Orange	Tapered	14-16"
INGOT	Nantes (Long)	Mid	8-9" / 1.2"	Orange	Cylindrical, blunt tip	13-15"
INTREPID	Fresh / Cello	Mid	10" / .75-1.5"	Orange	Tapered, smooth	14-17"
NEPTUNE	Fresh / Cello	Mid-late	8-10" / 1.6"	Orange	Tapered	14-17"
OLYMPUS	Fresh / Cello	Mid	7-9" / 1-1.5"	Orange	Tapered	15-17"
SAMANTHA	Berlicum / Emperor	Mid	7-9" / 1.1"	Orange	Cylindrical, tapered, blunt tip	13-16"
TRITON	Cut & Peel	Mid	9-10" / .5-1"	Orange	Cylindrical, semi-blunt tip	15-17"
VIPER	Cut & Peel	Mid	10-14" / .25-.75"	Orange	Long cylindrical, slight taper	16-18"
ZEUS	Cut & Peel	Mid	9-11" / .5-1"	Orange	Slight taper, semi blunt tip	15-17"

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





## PUREZA

### CAULIFLOWER: 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



## SNOWBOWL

### CAULIFLOWER: FRESH

Snowbowl is a mid-early maturing variety with good uniformity and inner wrap. Especially suited for fall to early winter harvest in the Desert Southwest, Snowbowl produces heavy, dome-shaped heads with small air pockets and excellent curd quality.

- Mid-early maturing
- Especially suited for fall to early winter harvest in the Desert Southwest
- Approx. days to maturity from transplant: 65 to 70

## TWISTER





## TWISTER

### CAULIFLOWER: 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 (late June – late October harvest in Salinas and Santa Maria/Oxnard). Twister performs well in the desert and good results have come recently from the Northeast.

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



## HIMALAYA

### CAULIFLOWER: FRESH

Himalaya is an exciting new cauliflower variety from Sakata and is ideal for the overwinter slot in California. 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 also 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



## INCLINE

### CAULIFLOWER: FRESH / FREEZER MARKETS

Incline offers large outer leaves and a tight inner wrap that provides good coverage. Its heads are large and dome-shaped with solid, dense curds. Known for its wide adaptability, Incline is well suited for fresh and freezer markets.

- For overwinter and cold seasons
- Dense, heavy curds for high yields
- Excellent uniformity
- Approx. days to maturity from transplant: 76



## CHINA COAST

### CHINESE CABBAGE: 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



## CHINA KING

### CHINESE CABBAGE: 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



## YUKI

### CHINESE CABBAGE: 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

**CHINESE CABBAGE: 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

**CHINESE CABBAGE: 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

**CHINESE CABBAGE: 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 CHOP

**COLLARD: 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



## TOP BUNCH 2.0

**COLLARD: 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

**COLLARD: 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



## VATES

**COLLARD: 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

## 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

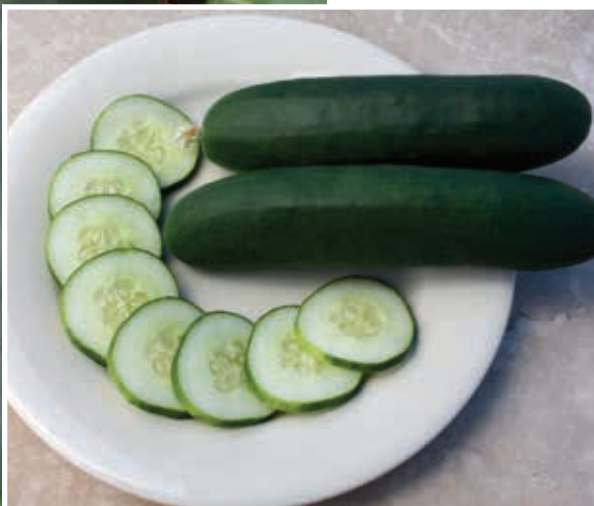


## SLICE MORE

### 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



## 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







## 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



## 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



SOUTHERN GREEN





## 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

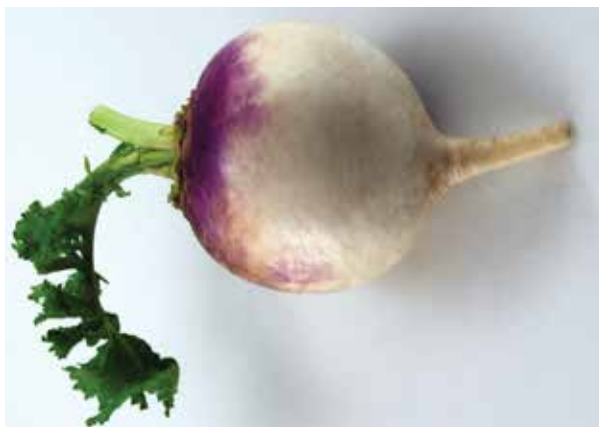


## ALL TOP

### 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



## PURPLE TOP WHITE GLOBE

### TURNIP: BUNCH / FRESH / SPECIALTY

Purple Top White Globe has nice attractive globe shaped roots that have a bright purple crown with a milky white bottom. It has an upright plant habit with dark green leaves. Purple Top White Globe has a sweet taste that is nice for fresh market and home gardeners.

- Bright purple crown
- Sweet taste
- Globe shape root
- Approx. days to maturity from transplant: 50-55



## 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



## SANTO

HERBS: 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.



## ITALIAN LARGE LEAF

HERBS: BASIL

This strain produces broad, dark green leaves with a very pleasant aroma. The well-branched plants are moderately slow to bolt. Italian Large Leaf is recommended for gardeners and commercial growers alike. Organic and non-organic seeds are available.



## BOUQUET

HERBS: 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 ferny foliage for the popular herb or the seeds for the pickling spice.



## DUKAT

HERBS: DILL

Dukat produces much higher yields of foliage than other dill varieties. The dark green, ferny 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.





## FOREST GREEN

HERBS: 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.



## DARK GREEN ITALIAN

HERBS: 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. Organic and non-organic seeds are available.

## INSIDE THE INFORMATION

VARIETY	TYPE	DAYS TO BABY LEAF / MATURITY FROM DIRECT SEED*	LEAF CHARACTERISTICS	LEAF COLOR	USES & REMARKS
BOUQUET <sup>OP</sup>	Dill	60	Fern-like	Dark green	Fresh market. Early; strong aroma.
DARK GREEN ITALIAN <sup>OP</sup>	Parsley	65-70	Broad, glossy, flat / Moderately cut	Dark green	Broader leaf, more erect and flavorful than most flat leaf parsley.
DUKAT <sup>OP</sup>	Dill	70	Fern-like	Dark green	Strong aroma, large umbels. Suitable for summer culture.
FOREST GREEN <sup>OP</sup>	Parsley	70-75	Double-curved / Finely cut leaf	Very dark green	Plants are erect and vigorous. Holds well in hot weather. Superior for garnish.
ITALIAN LARGE LEAF <sup>OP</sup>	Basil	90	Medium broad, glossy	Medium green	Excellent for potted and live herb production. Moderately slow bolting.
SANTO <sup>OP</sup>	Cilantro (Coriander)	60	Broad, celery-like	Medium bright green	Fast growing, slow bolting strain, suitable for multiple harvests. Highly aromatic.

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





## BLUE RIDGE

**KALE: 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

**KALE: 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

**KALE: 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





## 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 maturity



## 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**C2-606** SPINACH**COUNTRYSIDE**  
SPINACH**LAKE SIDE** SPINACH**OCEAN SIDE** SPINACH**RIVER SIDE** SPINACH**SEA SIDE** SPINACH**ELDORADO**  
SWISS CHARD**FIRE FRESH**  
SWISS CHARD**PEPPERMINT**  
SWISS CHARD**RHUBARB**  
SWISS CHARD**RUBY FRESH**  
SWISS CHARD**SILVERADO**  
SWISS CHARD**ALAMO** TURNIP**WHITE LADY** TURNIP



# INSIDE THE INFORMATION

VARIETY	CROP	INDOOR BABY LEAF DTM	MICROGREEN DTM	LEAF / STEM COLOR	LEAF CHARACTERISTICS	KEY RETAIL ATTRIBUTES	KEY GROWER ATTRIBUTES / DISEASE RESISTANCE
ASTRO	Arugula	25-28	12-15	Medium green / Pale greenish-white	Strap shape; slightly lobed & cut	Nutty, mild peppery flavor	Early and heat tolerant
BULL'S BLOOD	Beet	28-32	16-19	Both dark purple-red	Elongated oval; ruffled edges	Adds color; mild earthy flavor	Upright habit and slow to bolt
DETROIT SUPREME	Beet	-	13-16	Medium green / Deep burgundy	Upright and sturdy	Robust flavor	Strong, thick stems
EARLY WONDER TALL TOP	Beet	25-28	16-19	Bright green / Rosy red	Elongated oval; red veins	Milder flavor, holds well	Upright habit; early / mid maturity
FRESH PAK	Beet	23-26	-	Dark green / Very dark red	Oval; defined red veins	Bold stem / vein color	HR: Pfb // IR: Cb
FRESH START	Beet	23-26	-	Dark green / Medium-dark red	Oval; defined red veins	Bold stem / vein color	HR: Pfb, early
KESTREL	Beet	23-26	-	Deep green / very dark red	Rounded wedge; red veins	Bold stem / vein color	Early and uniform
MERLIN	Beet	23-26	-	Dark green / Deep burgundy	Oval; slightly ruffled; red veins	Sweet flavor, refined look	Sturdy stems, upright habit
RED ACE	Beet	20-23	13-16	Bright green / Rosy red	Oval	Good color, holds well	Sturdy stems, very uniform
TOUCHSTONE GOLD	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
VULTURE	Beet	23-26	-	Dark green / Very deep burgundy	Elongated oval; burgundy veins	Very deep stem / vein color	IR: Cb, uniform and dependable
RED JEWEL	Cabbage	-	14-17	Dusty blue-green / Deep purple	Elongated oval; flat	Adds bright color, loft	Thick leaf; sturdy stems
YUKI	Cabbage	-	14-17	Medium green / White	Spear shape, cut edges	Mild flavor, crunchy	IR: Pb // T:BLS / TpB, quick, uniform emergence
FLASH	Collard	28-31	-	Blue-green / Pale greenish-white	Rounded oval; slightly wavy; waxy	Adds weight and mild kale flavor	Withstands wilting
TOP BUNCH 2.0	Collard	28-31	-	Medium gray-green / Greenish-white	Rounded to oval; wavy edges	Adds weight and mild kale flavor	Early with fast regrowth
SHUNKYO SEMI-LONG	Daikon Radish	28-31	13-16	Medium matte green / Rose tinged	Baby leaf: spatula; Microgreen: spear	Unique stem color, tangy flavor	Easy to grow
BASIL ITALIAN LARGE LEAF	Herb	-	16-19	Both bright deep green	Shiny; cupped	Avoids bruising from chopping	Strong stems
CILANTRO (CORIANDER) SANTO	Herb	-	18-22	Both bright chartreuse green	Intricately cut	Brighter, milder cilantro flavor	Slower to stretch
DILL DUKAT	Herb	-	18-22	Both apple green	Delicate; feathery	Delicate, mild dill flavor	Withstands warmer temperatures
PARSLEY DARK GREEN ITALIAN	Herb	-	26-29	Both medium-dark green	Intricately lobed	High oil concentration	Larger leaf surface
BLUE RIDGE	Kale	25-28	-	Dusty blue-green / Bright green	Deeply lobed; folds at stem base	Unique color, adds loft	Slow to stretch, strong regrowth
IMPROVED DWARF SIBERIAN	Kale	25-28	14-17	Medium green / Light green	Round; rippled edges; thick	Unique texture, adds loft	Upright habit, thick leaf
VATES BLUE CURLED SCOTCH	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
SAVANNA	Komat-suna	29-32	14-17	Bright green / Light green	Rounded oval	High loft and bright color	Heat and cold tolerant, fast

VARIETY	CROP	INDOOR BABY LEAF DTM	MICROGREEN DTM	LEAF / STEM COLOR	LEAF CHARACTERISTICS	KEY RETAIL ATTRIBUTES	KEY GROWER ATTRIBUTES / DISEASE RESISTANCE
MIZ AMERICA	Mustard	25-28	14-17	Both deep reddish-purple	Intricately lobed; thick	Bold color, milder flavor	Very uniform, thick leaf
FENG QING CHOI	Pak Choi	21-24	-	Medium green / Pale green	Rounded oval	Adds loft and weight, holds well	Very uniform, thick leaf
JOI CHOI	Pak Choi	25-28	13-16	Dark green / White	Rounded oval; thick	Bright leaf & stem color	Superior uniformity, fast grower
LI REN CHOI	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	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
C2-606	Spinach	20-23	12-13	Dark green / Bright green	Spade-shaped; veined	Holds well	HR: Pfs: 1-9, 11-16
COUNTRYSIDE	Spinach	20-25	-	Very dark green / Bright green	Round-oval; veined; thick	Smooth, very dark leaf	HR: Pfs: 1-12, 14-16
LAKESIDE	Spinach	21-26	12-13	Dark green / Bright green	Ovate; veined	Good leaf texture	HR: Pfs: 1-11, 15-16 // IR: Pfs: 12, 14
OCEANSIDE	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
RIVERSIDE	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	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	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
SILVERADO	Swiss Chard	25-28	16-19	Matte dark green / Creamy white	Ovate; slightly savoy	Glossy, adds weight	Stays small, upright habit
ALAMO	Turnip	27-30	-	Medium green / White	Rounded oval; slight serration; veined	Adds loft and crunch	High yielder, strong regrowth
WHITE LADY	Turnip	25-28	15-18	Medium green / Greenish-white	Oval; slightly wavy; smooth	Milder flavor, holds well	Uniform size & growth rate



## VARIETIES SUITABLE FOR MICROGREENS



ASTRO ARUGULA



BULL'S BLOOD BEET



DETROIT SUPREME BEET



EARLY WONDER TALL TOP BEET



RED ACE BEET



TOUCHSTONE GOLD BEET



RED JEWEL CABBAGE



YUKI CHINESE CABBAGE



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

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**!



**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



**C2-606** SPINACH



**LAKESIDE** SPINACH



**SEASIDE** SPINACH



**CELEBRATION**  
SWISS CHARD



**ELDORADO**  
SWISS CHARD



**PEPPERMINT**  
SWISS CHARD



**RHUBARB**  
SWISS CHARD



**SILVERADO**  
SWISS CHARD



**WHITE LADY** TURNIP



## CHAMISAL

### LETTUCE: ICEBERG

Chamisal is a grower favorite with excellent heading and uniformly compact size and core. Medium heads display extremely smooth ribs and good pack appearance making it a nice carton/export variety. Chamisal has been showing high field tolerance to downy mildew and is well suited for the main season slot in the Salinas Valley.

- Grower favorite with excellent heading
- Extremely smooth ribs/pack appearance
- Good carton/export lettuce variety



## LOCKWOOD

### LETTUCE: 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



## MERIDIAN

### LETTUCE: ICEBERG

Meridian is a pioneer! This variety has been showing 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 as well as Southern Salinas Valley summer and early fall.

- Has been showing high field tolerance to Fusarium Race 1
- High bolting resistance, high tipburn resistance



## OMEGA 42

### LETTUCE: 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







## PORTOLA

LETTUCE: 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



## REGENCY 3.0

LETTUCE: 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 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 Regency series
- Great carton/bulk variety with compact size



## CIELO VERDE

LETTUCE: 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, LNSV and Corky Root



## MONTERRA

LETTUCE: 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 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, LNSV and Corky Root



## ZORRO

### LETTUCE: 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 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, LNSV, Corky Root, Tipburn



## TETON

### LETTUCE: ROMAINE

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

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



## KREMLIN

### LETTUCE: 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

### LETTUCE: RED LEAF

RL2211 is a red leaf variety similar to popular green leaf type, Cielo Verde. It has been showing strong field tolerance to 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 LNSV and Corky Root
- Good tip burn tolerance



# INSIDE THE INFORMATION

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
CHAMISAL	Iceberg	Coast main season / Desert southwest early spring
CORONA	Iceberg	Coast main season
DOMINGOS 67	Iceberg	Desert southwest early spring
FRESH/HEART	Romaine	Coast fall and desert southwest spring and fall
GREEN TIGER	Baby Leaf Green Oak	Year-round production
GREEN TOWERS	Romaine	Coast spring and fall; desert southwest midwinter
HAVASU	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 / Desert southwest late fall
MERIDIAN	Iceberg	Desert southwest fall and spring / Southern salinas valley summer and early fall
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
ORACLE	Iceberg	Southern salinas valley summer/ Desert southwest fall and spring
PORTOLA	Iceberg	Coast spring
R7436	Romaine	Desert southwest fall
RAIDER	Iceberg	Desert southwest fall and spring
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
SALINAS 88 SUPREME	Iceberg	Main season (summer)
SARATOGA	Baby Leaf Lolla Rossa	Year-round production
TABOO	Baby Leaf Red Romaine	Year-round production
TETON	Romaine	Desert southwest midwinter / Coast spring
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



## SAKATA MELON

Sakata has built a reputation for timeless quality and peak performance in the melon category. We never rest on our laurels, and continue to focus on fulfilling the needs of growers throughout North America with quality, reliability and service in mind. A leader in superior melon breeding and production, Sakata offers innovative varieties that truly perform – and taste great!

ATLANTIS



## INFINITE GOLD

**MELON: LONG SHELF LIFE CANTALOUPE**

Infinite Gold represents the next big thing in cantaloupe. This LSL melon has been 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

**MELON: 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.



## OLYMPIC GOLD

**MELON: 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.



## 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.





## ATLANTIS

### MELON: 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



## OLYMPIC EXPRESS

### MELON: WESTERN SHIPPER

Olympic Express is a Western Shipper with early maturity. It is good for mid season. This variety has great taste, excellent firmness and very good interior color. Olympic Express performs well in Central America and Mexico.

- Exceptional fruit quality
- For both fresh and fresh-cut markets



## ORO DURO

### MELON: WESTERN SHIPPER

Oro Duro is a medium-large sized, mid-maturing cantaloupe. This variety offers an excellent net, outstanding flesh color and a small, closed cavity. Oro Duro is a great tasting cantaloupe with consistent, high sugar content. This variety works best in Central America and Mexico.

- Strong vine under stress conditions
- Heavy-yielder



## TIMELESS GOLD

### MELON: LONG SHELF LIFE

Bred especially for long shelf life, Timeless Gold is widely adapted to many growing regions. It is a high-yielding variety with strong vines. Uniform fruit have a full net and excellent firmness and Brix.

- Bred especially for long shelf life (LSL)
- Round-oval shape
- Excellent firmness and Brix



## SNOW MASS

MELON: HONEYDEW

This medium-sized honeydew offers excellent fruit quality. Snow Mass has a very smooth rind, yielding round to blocky-round fruit. The cavity is tight with light green, very sweet flesh. Its vigorous vine gives excellent foliage cover to the heavy fruit set. This variety is best adapted to hot or long growing seasons for maximum fruit size.

- Heavy fruit set
- Excellent taste, high Brix



## CITRINO

MELON: HONEYDEW

Citrino is a mid-season honeydew orange flesh. Citrino boasts excellent flavor and high Brix. It has good shipping ability for long distances. It mostly size 6's and 8's. This melon has a round shape with dense flesh and a medium closed cavity. Citrino has a smooth, creamy white rind.

- Good shipping ability for long distances
- Excellent flavor and Brix
- Orange flesh



## DULCE NECTAR

MELON: HONEYDEW

Dulce Nectar is an early and late season honeydew. It mostly size 5's with some 4's. This melon has a round-oval shape with dense light green flesh and a medium closed cavity. Dulce Nectar has a creamy white exterior. It grows well in cool conditions transitioning to warm or hot.

- Good sizes
- High yields for growing in cool to warm or hot seasons



## SUPER NECTAR

MELON: 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





## HONEYBREW

MELON: 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



## BIT O' GOLD

MELON: LONG SHELF LIFE

Bit O' Gold has it all: flavor, texture, aroma, and sweetness; plus, it holds well after harvest, giving you time to enjoy the bounty. This petite wonder, a mini Harper type, is the perfect size for sharing with a friend—or not! The full-sized vines set many small fruits that are ready for harvest when the netting from the melon climbs to the stem. Fruits mature in about 80 days.

- Single serve size
- Fantastic flavor and texture
- Holds well before and after harvest



## MEGABREW

MELON: HONEYDEW

Megabrew provides excellent fruit size (4's, 5's) and yields. It is slightly larger, rounder, and earlier than Honeybrew. Megabrew has trialed well in Texas and Mexico and has very uniform fruit size and shape.

- Good yields of large fruit
- Very uniform



## CAMINO EUROPA

MELON: AMARILLO

Camino Europa is an Amarillo-type melon with a very attractive exterior yellow color. The interior features very firm flesh with a small cavity. Camino Europa is appropriate for shipping to European markets with its excellent shelf life and sizes 5, 6, and 7. This melon has a very vigorous plant habit and produces excellent yields.

- Excellent yields
- Appropriate for shipping to European markets



## DA VINCI

MELON: MIXED / SPECIALTY

This Italian Supermarket-type melon offers wide regional adaptability, improved netting and nice intense orange interior color. Da Vinci is very attractive with a nice oval shape and dark green stripes. This melon is extremely firm and very sweet.

- Firm crisp flesh
- Very sweet aromatic flavors

# INSIDE THE INFORMATION

VARIETY	TYPE	RELATIVE MATURITY	FRUIT SIZE / SHAPE	RIND CHARACTERISTICS	INTERIOR CHARACTERISTICS	DISEASE RESISTANCE	USES & REMARKS
ALANIZ GOLD	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.
ATLANTIS	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.
AVATAR	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
BIT O' GOLD	LSL Cantaloupe	Early-mid	Round	Open net	Tight cavity / Firm	HR: Fom: 0, 2 / Px: 1, 2	The full-sized vines set many small fruits that are ready for harvest when the netting from the melon climbs to the stem.
CAMINO EUROPA	Amarillo	Mid	5s, 6s & 7s	Smooth	Firm / Small cavity	HR: Fom: 0, 1, 2	Camino Europa has excellent yield and great shipping qualities for the European market.
CITRINO	Honeydew	Mid	Round	Smooth	Medium closed cavity	HR: PRSV-W IR: Px: 1, 2	Excellent choice for growers looking for a "value added" melon.
DA VINCI	Specialty	Mid	Oval	Sutured	Crisp / Firm / Small cavity	HR: Fom: 0-2 / Px: 1	Firm crisp flesh with very sweet, aromatic flavors.
DULCE NECTAR	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.
HONEYBREW	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.
INFINITE GOLD	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.
MEGABREW	Honeydew	Mid	Round	Smooth	Green	HR: Fom: 0, 2 IR: Px: 1, 2	Good yields of large fruit, very uniform.
OLYMPIC EXPRESS	Western Shipper Cantaloupe	Early	Round oval	Full net	Crisp / Firm	HR: Px: 1, 2 IR: Fom: 0, 2	A variety for both fresh and fresh-cut markets. Exceptional fruit quality.
OLYMPIC GOLD	Western Shipper Cantaloupe	Mid late	Round oval	Full net	Crisp / Firm	HR: Fom: 2 / Px: 1, 2	Consistent and productive. Wide adaptability.
ORO DURO	Western Shipper Cantaloupe	Mid late	Round	Full net	Closed cavity / Small cavity	HR: Px: 1, 2 IR: Fom: 2	Strong vine under stress conditions. Heavy yielder.
SNOW MASS	Honeydew	Mid-early	Round / Blocky round	Smooth	Tight cavity	HR: Fom: 0, 2 / Px: 1	Heavy fruit set, excellent taste and high Brix.
SUPER NECTAR	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.
TIMELESS GOLD	LSL Cantaloupe	Mid	Round oval	Full net	Firm	HR: Fom: 0-2 / Px: 2	High yielding variety with uniform shapes and sizes. Excellent flavor.

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



## 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



## SOUTHERN GIANT CURLED

**MUSTARD: INDIA**

Southern Giant Curled is a moderate growing early maturing mustard variety. It has dark green heavily curled leaves. It has an upright plant habit that results in easy harvesting for bunch markets.

- Dark green leaf color
- Upright plant habit
- Heavily curled leaf type



## 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



## JAMBALAYA

**OKRA**

Jambalaya 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



## GREAT WESTERN

### ONION: INTERMEDIATE

Great Western is a main season yellow intermediate onion. It can be grown in all intermediate growing areas including New Mexico. Great Western has good firmness with good skin retention. It will cut a high percentage of single centers and can be direct seeded or transplanted. This variety has strong plant growth with sizes that range from colossal to jumbo.

- Grower friendly and adaptable
- Good pink root tolerance



## OVATION

### ONION: 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



## SPANISH MEDALLION

### ONION: 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

### ONION: 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



## MT. WHITNEY

### ONION: INTERMEDIATE

This intermediate mid-season variety is grower friendly and offers consistency. Mt. Whitney is suited for all intermediate growing areas including Mexico. This brilliant white-skin onions offer several layers of skin retention with firmness. Its shape is globe and sizes range jumbo to large with strong top and single centers.

- High percentage of single centers
- Brilliant white scale
- High yielder, very adaptable



## BELLA LUNA

### ONION: 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

### ONION: 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



## SON950Y

### ONION: LONG DAY

SON950Y is suited of all areas where Spanish long days are grown. It is a main season variety 115 to 118 day onion. It has a strong top with good skin retentions SON950Y has a nice brown skin with several layers. I will store up to 6 months under good conditions.

- Grower friendly
- Good yielder
- Good pink root tolerance



## INSIDE THE INFORMATION

VARIETY	TYPE	DAYS TO MATURITY FROM DIRECT SEED*	BULB SIZE	BULB SHAPE	SKIN COLOR	DISEASE RESISTANCE	USES & REMARKS
BELLA LUNA	White / Short day	Mid / 180-185	Jumbo to large	Grano	White	HR: Pt	It has pink root tolerance is exceptionally grower friendly.
GREAT WESTERN	Yellow / Intermediate	Mid / 105-110	Colossal to jumbo	Globe	Brown	IR: Pt	Grower friendly and adaptable. Good pink root tolerance, good yielder.
MT. WHITNEY	White / Intermediate	Mid-late / 105-110	Jumbo to large	Globe	White	IR: Pt	High percentage of single centers. Brilliant white scale. High yielder. Very adaptable.
OVATION	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.
RED SAPPHIRE	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.
SON115Y	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.
SON912Y	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.
SON950Y	Yellow / Long day	Mid / 115-118	Colossal to jumbo	Globe	Yellow	IR: Pt	SON950Y is suited of all areas where Spanish Long Days are grown. It has a strong top with good skin retentions, and will store up to 6 months under good conditions.
SPANISH MEDALLION	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.
SUPER LUNA	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.
WHITE GEM	Bunching Onion	Mid / 62	—	Medium length, white shanks	—	—	Excellent standing ability. Easier to bunch, better yield than OP types.
YOSEMITE	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.



## JOI CHOI

### PAK 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

### PAK 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



## TOY CHOY

### PAK CHOI: CANTON DWARF

Toy Choy is a compact hybrid Canton pak choi 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





## FENG QING CHOI

PAK 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



## LI REN CHOI

PAK CHOI: MINI

Li Ren Choi is an extremely attractive mini pak choi with light green stems and slightly darker green leaves. This variety develops a pak choi 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 choi hearts for the Asian market.

- Novelty item
- Develops pak choi shape very early



## INSIDE THE INFORMATION

VARIETY	TYPE	DAYS TO MATURITY FROM DIRECT SEED*	HABIT	HEAD CHARACTERISTICS	BOLT RESISTANCE	USES & REMARKS
TOY CHOY	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 choi. As susceptible to bolting as OP so harvest early or when bud starts to appear.
LI REN CHOI	Mini	Early / 40	Upright, compact	Light green	High	This variety develops a pak choi shape at a very early stage.
MEI QING CHOI	Shanghai	Extra early / 35-40	Upright, medium	Green petiole, tight vase	High	Uniform, slow bolting and simple to grow.
FENG QING CHOI	Shanghai	Extra early / 35-40	Upright, compact	Green petiole, tight vase	Very high	Good uniformity, slower bolting than Mei Qing Choi with nice green leaf color.
JOI CHOI	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.

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



## SAKATA HOT PEPPERS

Our hot pepper program continues to grow, and these are some of the most exciting new products on the market! We're proud to offer an extensive collection of choices for your needs. Sakata peppers are bred with the grower in mind and offer disease resistance, excellent yield and high-quality, uniformly-shaped fruit. When it comes to hot peppers, Sakata is bringing the heat with exceptional breeding and top performance and flavor!



## MEGATRON

PEPPER: 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 potential
- Great disease package



## EARLY FLAME

PEPPER: 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



## SPICY SLICE

PEPPER: 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



## JALAFUEGO

PEPPER: 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.

- Our hottest Jalapeño pepper
- Excellent fruit length



## CINDER

PEPPER: JALAPEÑO

Cinder produces medium size fruit on vigorous, high yielding plants. Widely adapted, this variety works well throughout Mexico and the U.S. The fruit are smooth, very dark green and pungent. Cinder has high resistance to X spp: 0-3, 7, 8 and PVY: 1.2.

- Adapted to USA and Mexico



## EL JEFE

PEPPER: JALAPEÑO

El Jefe provides very high quality fruit on a large plant. The fruit from this variety are very dark green and glossy, pungent, and have minimal cracking and purpling.

- Widely adapted
- Uniform



## EL REY

PEPPER: JALAPEÑO

El Rey is a widely-adapted jalapeño suited for either fresh market or processing. It produces high yields of pungent, large, thick-walled fruit on a compact plant. This variety's fruit are dark green with a minimum of stress purpling.

- Concentrated early set
- Easy to grow!



## ARAPAHO

PEPPER: 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





## ALTEÑO

PEPPER: POBLANO (ANCHO)

Alteño is an extra-large fruited poblano (Ancho) with good quality and heavy fruit. Fruit color matures from mid-dark green to deep red. The maturity is mid-early and it is suited for multiple harvests where it has the ability to maintain fruit size. The fruit are classical with broad shoulders and tapering to a point, firm, straight and have a high percentage of two lobes. The plants are strong and have good vigor, continuous setting ability and are adapted for long cycle production in the highland areas. Alteño has very good general field performance under root disease pressure and also has a great dry weight ratio. Well suited for the fresh and drying market.



## MARISCAL

PEPPER: 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.



## TIBURON

PEPPER: POBLANO (ANCHO)

Tiburon produces large fruit for stuffing or drying. This variety's fruit are shiny, dark green maturing to red and are mildly pungent. Tiburon has a large plant with continuous fruit setting for extended harvest.

- Stuffing pepper
- Excellent yields



## SARGENTO

PEPPER: 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.





## SUREÑO

PEPPER: SERRANO

Sureño is a high producing, large, straight fruited serrano pepper with a medium-green color and excellent quality. The plant is more compact and the yield more concentrated than a traditional serrano. Sureño's fruit is very firm, with a solid core that can withstand rough handling. This variety is resistant to PVY: 1.2.

- Very firm fruit
- Solid core that can with stand rough handling



## TRIDENT

PEPPER: 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.



## PATHFINDER

PEPPER: 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 X spp: 0-3, 7, 8, with high pungency and an average fruit weight of 30grams. With a nice dark green color, thick walls and a great shelf life suitable for the export market.

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



## LONE RANGER

PEPPER: 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

PEPPER: 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

PEPPER: 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



## CRACKLE

PEPPER: FINGER HOT

Crackle is a large fruited "finger hot" type pepper with excellent yield potential on a sturdy mid-compact plant. Fruit are dark green and to transition to final mature red takes time. The maturity is very early and it is suited for multiple harvests where it has the ability to maintain good size. The fruit have a long cylindrical shape and good pungency for this type.

- Dark green
- Concentrated setting
- Maintains very good fruit size



## CHAAK

PEPPER: 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

PEPPER: 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

# INSIDE THE INFORMATION

VARIETY	TYPE	RELATIVE MATURITY*	FRUIT SIZE / SHAPE	FRUIT COLOR	PLANT HABIT	DISEASE RESISTANCE	USES & REMARKS
DESPERADO	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.
CAMPESINO	Campesino	Early	Large, XL / Long, Tapered	Green to red	Compact, vigorous		Great classic flavor. Strong, healthy plants. Dual purpose for fresh market & processing.
ARAPAHO	Cayenne	Early	Large / Long wrinkled	Green to red	Compact		Early harvest for fresh market and processing.
CRACKLE	Finger Hot	Very early	Large, XL / Long, tapered to end	Dark green	Compact, medium		Concentrated setting. Maintains very good fruit size.
CHAAK	Habanero	Early	Typical Habanero shape	Green to orange	Medium	IR: TSWV	Extremely early with good disease resistance.
CINDER	Jalapeño	Mid	Jumbo / Very smooth bullet	Dark green to red	Large, vigorous	HR: PVY: 1.2 / X spp: 0-3, 7, 8	Jumbo fruit adapted to U.S. and Mexico.
EARLY FLAME	Jalapeño	Very early, early	Medium / Cylindrical to blunt	Dark green to red	Compact	HR: TEV / PVY: 1.2	Concentrated set. Suited for mechanical harvest.
EL JEFE	Jalapeño	Mid-early	Large to XL / smooth bullet	Dark green to red	Large, vigorous	HR: PVY: 1.2 / X spp: 0-3, 7, 8 \ IR: TEV	Widely adapted, uniform.
EL REY	Jalapeño	Mid-early	Large / Smooth bullet	Green to red	Compact	HR: Tm: 0 / X spp: 0-3, 7, 8 \ IR: TEV	Concentrated early set.
JALAFUEGO	Jalapeño	Mid	Medium / Long tapered at end	Dark green to red	Large, vigorous	HR: PVY: 1.2 / X spp: 0-3, 7, 8	Excellent pungency for jalapeno; great fruit length.
MEGATRON	Jalapeño	Very early	Extra Large	Green to red	Compact	HR: Tm: 0 / X spp: 0-3, 7, 8	Extremely early. High yield potential.
SPICY SLICE	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.
ALTEÑO	Poblano (ancho)	Early-mid	XL / semi flat, tapers to point	Dark green to red	Tall	IR: Pc	High yield potential. Excellent dry weight ratio.
MARISCAL	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.
SARGENTO	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
TIBURON	Poblano (ancho)	Mid	Large / flat tapers to point	Dark green to red	Large, vigorous		Stuffing pepper; excellent yields.
TRIDENT	Poblano (ancho)	Mid, mid-late	Extra large / 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.
LONE RANGER	Serrano	Mid-early	XL / Cylindrical to blunt	Light green	Medium	HR: X spp 0-3, 7, 8	High yield potential. Impressive shelf life.
PATHFINDER	Serrano	Mid-early	Extra-large / Cylindrical to blunt	Dark green	Medium	HR: X spp 0-3, 7, 8	Incredible shelf life. High yield potential.
SUREÑO	Serrano	Mid-early	XL / cylindrical to blunt	Green	Compact	HR: PVY: 1.2	Very firm fruit, solid core that can withstand rough handling.
TAKARA	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.



## SAKATA SWEET PEPPERS

Our sweet pepper breeding programs are focused on the total package! Our research teams work with industry specialists to identify trends, beneficial features and priorities. Key production traits we are addressing include marketable yield potential, adaptability, earlier maturity, labor friendliness and improved disease resistance — all the while ensuring consumers receive greater quality, flavor and shelf life. We're dedicated to our craft to help meet your specific needs.



Battle Bacterial Spot with S10® Technology:  
INTRODUCING THE SHIELD® COLLECTION

*Sakata's new collection of SHIELD® bell peppers are ready to take on the challenges of Eastern growing conditions, most notably: Bacterial leaf spot. Arm your program with Delray S10®, Ninja S10®, Nitro S10®, Samurai S10® and Shogun S10® to combat bacterial leaf spot, and enjoy the added bonus of high yields of glossy, dark green, attractive extra-large and jumbo fruit!*

## PALISADE



## NITRO S10®

PEPPER: 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 / X spp: 0-10



## NINJA S10®

PEPPER: BELL / OUTDOOR

Ninja S10® is a widely adapted, green to red bell pepper with mid-early maturity and extra-large and jumbo sized fruit. The fruit are very firm, glossy dark green and mature to red color. The plants are mid strong and vigorous with good fruit setting ability.

- Widely adapted
- Good size with very good firmness
- HR: Tm: 0 \ IR: X spp: 0-10



## SAMURAI S10®

PEPPER: BELL / OUTDOOR

Samurai S10® is widely adapted with early to mid-early maturity and high yield potential of large and extra-large fruit. The fruit have good size uniformity, are very firm, glossy dark green and mature to red color. The plants are mid strong with good fruit setting ability.

- Widely adapted
- High yield potential
- HR: Tm: 0 \ IR: X spp: 0-10



## SHOGUN S10®

PEPPER: BELL / OUTDOOR

Shogun S10® has mid maturity and is extra-large with high yield potential. It is adapted to late fall, winter and spring in the southeast and summer production in the northeast. The fruit have very good size, are smooth and firm with a glossy dark green color maturing to red. Fruit tends to be slightly longer blocky shape. Plants are strong and vigorous with good cover and continuous setting ability.

- Strong plants with good cover
- High yield potential with good size
- HR: Tm: 0 \ IR: TSWV / X spp: 0-10





## MERCER

PEPPER: 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



## ARICA

PEPPER: 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



## BLITZ

PEPPER: BELL / OUTDOOR

Blitz is an early maturing, extra-large blocky green to red bell with great yield potential at first harvest. Fruit are high quality with thick walls and a uniform blocky shape. It is a versatile and consistent performer providing size and quality.

- Great size and yield potential
- For green and red mature markets
- HR: Tm: 0 / X spp: 0-5, 7-9 \ IR: TEV



## DOUBLE UP

PEPPER: 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



## DELRAY S10®

PEPPER: BELL / OUTDOOR

Delray S10® is a multi-disease resistant yellow bell with high yield potential and continuous setting ability. It is adapted to late fall, winter and spring in the southeast and summer production in the northeast where bacterial leaf spot is a concern. The fruit have very good size and are firm maturing to deep golden yellow color.

- Mid-strong plants with good cover
- High yield potential with good size
- HR: Tm: 0 \ IR: TSWV / X spp: 0-10



## PALISADE

PEPPER: BELL / OUTDOOR

Palisade is a large and extra-large variety with a high yield potential of quality "number 1" peppers. The fruit are smooth, firm with a glossy attractive dark green color maturing to a deep red. The plant has good vigor with an open mid to mid-tall habit and continuous setting ability.

- High yield potential of number 1's
- Suited for green and red production
- HR: Tm: 0-3 / X spp: 0-3, 7, 8 \ IR: TSWV



## CLASSIC

PEPPER: BELL / OUTDOOR

Classic is a green to red, high yielding bell that has high fruit quality, with thick walls and a uniform blocky shape. Classic is widely adapted and offers good heat set ability.

- High quality in the open field
- Smooth blocky fruit with flat shoulders
- HR: Tm: 0 / X spp: 0-3, 7, 8



## EARLY SUMMER

PEPPER: 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





## BANDAI

PEPPER: BELL / OUTDOOR

Bandai plants are vigorous and productive, with excellent cover affording great fruit protection from sunburn damage. Fruit are extra-large, thick-walled and mostly four lobed with the primary focus on mature green production. This variety performs very well for early slots from hot to cold, where it has high yield potential.

- Strong cover
- Extra-large and high marketable yield potential
- HR: Tm: 0-3 \ IR: TSWV



## CHEROKEE

PEPPER: 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



## MAJESTIC RED

PEPPER: BELL / OUTDOOR

Majestic Red is similar in type to the popular green to red bell pepper Double Up that is known for dependable performance in many markets across the world. It offers slightly earlier maturity with high yields of deeper red colored fruit and adds intermediate resistance to phytophthora root rot.

- Attractive red color
- High yield potential with good size
- HR: Tm: 0 / X spp: 0-3, 5, 7, 8 \ IR: Pc



## LOLA

PEPPER: SWEET BANANA

Lola is a widely adapted, sweet banana pepper well suited for production where bacterial leaf spot and or TSWV are concerns. The maturity is early with very high yield potential of large and extra-large fruit suited for both fresh market and processing. The fruit are sweet, light yellow to bright red, smooth, straight, firm and have thick walls. The plants are medium strong and vigorous with good cover.

- Widely adapted
- High yield potential
- Great disease package



## GRENADA

PEPPER: CUBANELLE

Grenada is a cubanelle that offers high resistance to X spp: 0-3, 7, 8. It is well adapted to the Mid-Atlantic, Southeast and Caribbean. This large to extra-large variety boasts smooth fruit with a shallow shoulder cavity and excellent overall quality. Grenada offers strong plants with great yield potential.

- Smooth, quality fruit
- HR: X spp: 0-3, 7, 8



## GOLD FORTUNE

PEPPER: LAMUYO

Gold Fortune is a large to extra-large fruited yellow lamuyo pepper variety with high yield potential. It is adapted to stake culture to make the best use of the strong, vigorous and productive plant. The fruit have very good size, are smooth and firm with a glossy attractive yellow color at full maturity.

- High quality fruit
- Productive and rustic variety
- HR: PVY: 1.2 \ IR: Lt / Mi / TSWV



## LEMON DELITE

### PEPPER: SNACKING

Lemon Delite is a large fruited snack pepper variety well adapted 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 midstrong 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

### PEPPER: SNACKING

Orange Delite is a large fruited snack pepper variety well adapted 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

### PEPPER: SNACKING

Ruby Delite is a large fruited snack pepper variety well adapted 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



## SUNAKKU ICHIGO

### PEPPER: SNACKING

Sunakku Ichigo is a widely adapted, sweet red snack pepper well suited for producers requiring a uniform and high yielding variety with long cycle production potential. The fruit are glossy red, sweet, have good flavor, little seed and good post-harvest quality. The plants are strong, vigorous and have an open habit.

- High yield potential
- Continuous setting
- HR: Tm: 0-2



## SUNAKKU MIKAN

### PEPPER: SNACKING

Sunakku Mikan is a widely adapted, sweet orange snack pepper with glossy, attractive orange fruit suited for long cycle production with high yield potential. The maturity is mid. The fruit are sweet, have good flavor and very little seed. The plants are strong and compact with very good continuous setting ability on an open habit.

- High quality
- Attractive orange fruit with good shelf life
- HR: Tm: 0



## YELLOW SPARKLER

### PEPPER: SNACKING

Yellow Sparkler is mid-early maturing, with high brix, sweet taste with a crunchy texture. The fruit are firm, smooth and glossy with a very few seeds. The strong plants have short internodes and provide good fruit cover.

- Widely adapted
- Fruit have few seeds
- HR: Tm: 0



## BISHOP

PEPPER: 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

PEPPER: 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

## AMBASSADOR

PEPPER: BELL / INDOOR

Ambassador is a large and extra-large, green to yellow blocky bell developed for low and mid-tech production. It is well suited to warm to cool production seasons and is best suited for multistem production. Ambassador is vigorous and has good cover.

- Large size with good firmness
- Adapts well to cool season production
- HR: Tm: 0-3 \ IR: TSWV

## GRACE

PEPPER: BELL / INDOOR

Grace is an large, glossy and very attractive green to yellow blocky bell developed for low to mid-tech using the two stem production system. It is well suited to warm and more humid conditions and is sensitive to cold. Grace has high quality and attractive smooth yellow fruit.

- Early maturity
- Attractive fruit with good quality
- HR: Tm: 0-2



# INSIDE THE INFORMATION

VARIETY	TYPE	RELATIVE MATURITY*	FRUIT SIZE** / SHAPE	FRUIT COLOR	PLANT HABIT	DISEASE RESISTANCE
AMBASSADOR	Bell / Indoor	Mid	L-XL / Blocky	Green to yellow	Open, strong, tall	HR: Tm: 0-3 \ IR: TSWV
ARANJUEZ	Bell / Indoor	Mid-early	L / Blocky	Green to orange	Open, compact, mid to mid-tall	HR: Tm: 0-2
BISHOP	Bell / Indoor	Mid-early	L-XL / Blocky	Dark green to red	Open, medium tall	HR: Tm: 0-3
GRACE	Bell / Indoor	Early	L / Blocky	Green to yellow	Open, compact, mid tall	HR: Tm: 0-2
ARICA	Bell / Outdoor	Early, mid-early	L-XL / Blocky	Green to red	Medium-large, compact	HR: Tm: 0 / X spp: 0-3, 7, 8 \ IR: TSWV
BANDAI	Bell / Outdoor	Mid	XL / Blocky	Green to red	Medium-large	HR: Tm: 0-3 \ IR: TSWV
BLITZ	Bell / Outdoor	Early, mid-early	XL / Blocky	Green to red	Medium	HR: Tm: 0 / X spp: 0-5, 7-9 \ IR: TEV
CHEROKEE	Bell / Outdoor	Mid-early	L-XL / Blocky	Green to red	Medium-large to large	HR: Tm: 0-3 / X spp: 0-3, 7, 8 \ IR: TSWV
CLASSIC	Bell / Outdoor	Mid	XL / Blocky	Dark green to red	Medium large, good cover	HR: Tm: 0 / X spp: 0-3, 7, 8
DELRAY S10®	Bell / Outdoor	Mid, mid-late	L-XL / Blocky	Green to yellow	Medium-large, tall	HR: Tm: 0 \ IR: TSWV / X spp: 0-10
DOUBLE UP	Bell / Outdoor	Mid-early	L-XL / Blocky	Green to red	Medium-large	HR: Tm: 0 / X spp: 0-3, 5, 7, 8
EARLY SUMMER	Bell / Outdoor	Early, mid-early	XL / Blocky	Green to yellow	Medium-large, good cover	HR: Tm: 0 / X spp: 0-5, 7-9 \ IR: TSWV
MAJESTIC RED	Bell / Outdoor	Mid-early	L-XL / Blocky	Green to red	Medium-large	HR: Tm: 0 / X spp: 0-3, 5, 7, 8 \ IR: Pc
MERCER	Bell / Outdoor	Mid-early	L-XL / Blocky	Green to red	Medium-large, tall	HR: Tm: 0 / X spp: 0-3, 7, 8 \ IR: Pc
NINJA S10®	Bell / Outdoor	Mid-early	XL-J / Blocky	Green to red	Medium-large	HR: Tm: 0 \ IR: X spp: 0-10
NITRO S10®	Bell / Outdoor	Mid	L-XL / Blocky	Dark green to red	Medium, compact	HR: Tm: 0 \ IR: Pc / TSWV / X spp: 0-10
PALISADE	Bell / Outdoor	Mid-early	L-XL / Blocky	Dark green to red	Medium-large, tall	HR: Tm: 0-3 / X spp: 0-3, 7, 8 \ IR: TSWV
SAMURAI S10®	Bell / Outdoor	Early, mid-early	L-XL / Blocky	Green to red	Medium	HR: Tm: 0 \ IR: X spp: 0-10
SHOGUN S10®	Bell / Outdoor	Mid	L-XL / Blocky	Dark green to red	Medium-large, tall	HR: Tm: 0 \ IR: TSWV / X spp: 0-10
GRENADA	Cubanelle	Mid	L-XL / Long tapered	Light green to red	Medium, good cover	HR: X spp: 0-3, 7, 8
GOLD FORTUNE	Lamuyo	Mid-late	L-XL / Long blocky	Green to yellow	Large, tall, vigorous	HR: PVY: 1.2 \ IR: Lt / Mi / TSWV
LEMON DELITE	Snacking	Very early, early	M-L / Flat, conical	Green to yellow	Medium, compact, good cover	HR: Tm: 0 / X spp: 0-3, 7, 8
ORANGE DELITE	Snacking	Very early	M-L / Flat, conical	Green to orange	Medium, compact, good cover	HR: Tm: 0 / X spp: 0-3, 7, 8
RUBY DELITE	Snacking	Very early	M-L / Flat, conical	Green to red	Medium, compact, good cover	HR: Tm: 0 / X spp: 0-3, 7, 8
SUNAKKU ICHIGO	Snacking	Mid	S-M / Tapered, conical	Green to red	Open, tall, vigorous	HR: Tm: 0-2
SUNAKKU MIKAN	Snacking	Mid	S-M / Tapered, conical	Green to bright orange	Open, tall, vigorous	HR: Tm: 0
YELLOW SPARKLER	Snacking	Mid	S-M / Elongated tapered	Green to yellow	Medium, good cover	HR: Tm: 0
LOLA	Sweet Banana	Early	L-XL / Elongated tapered	Light yellow to bright red	Medium large, good cover	HR: X spp: 0-3, 7, 8 \ IR: TSWV

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



## SAKATA PUMPKINS

Sakata's pumpkin program has it all! From large to small, our pumpkins offer disease resistance, outstanding yield, and high quality, uniformly-shaped fruit for any market fit. For pumpkins that enhance your program by delivering reliable performance, trust in Sakata genetics!



## SPARTACUS

**PUMPKIN: 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

**PUMPKIN: 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

HJINKS





## THOR

**PUMPKIN: 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



## DIABLO

**PUMPKIN: 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



## CAPTAIN JACK

**PUMPKIN: 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



## EL TORO

**PUMPKIN: 25-35 LB**

El Toro is a large pumpkin weighing about 25 to 35 pounds per fruit. It is very uniform and sets several large fruits per plant. El Toro has a traditional look with deep ribbing and a tall blocky shape. It is dark orange and has a large dark green embedded handle to match its size. This variety has good yield potential.

- Very uniform fruit, sets several large fruits per plant
- Good yield potential
- Powdery Mildew tolerance



## LARGE MARGE

**PUMPKIN: 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

**PUMPKIN: 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





## EARLIPACK

**PUMPKIN: 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

**PUMPKIN: 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

**PUMPKIN: 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

**PUMPKIN: 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



## FALL SPLENDOR PLUS

**PUMPKIN: 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.



## HIJINKS

**PUMPKIN: 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



## ROCKAFELLOW

**PUMPKIN: 2-3 LB**

This unique small pie pumpkin with its long dark green embedded handle and hard shell is just right for little hands to pick and carry. Rockafellow makes a great pumpkin for painting with its smooth outer shell.

- Hard shell, smooth skin
- Ideal for painting



## FALL SPLENDOR

**PUMPKIN: 4-6 LB**

Fall Splendor is a true spookster, with dark orange fruit on a restricted vine. This variety has excellent yield potential with uniform, smooth fruit weighing four to six pounds. This variety has dark green handles for easy carrying by kids of all ages. For either the local pumpkin patch or retail market, both growers and school children will be proud to have Fall Splendor.

- Very uniform
- Average weight 4-6 lb.





## JACK SPRAT

**PUMPKIN: 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



## KANDY KORN PLUS

**PUMPKIN: 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



## TOAD

**PUMPKIN: 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



## WHITE FLAT BOER FORD

**PUMPKIN: 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

# INSIDE THE INFORMATION

VARIETY	FRUIT SIZE / SHAPE	MATURITY FROM DIRECT SEED*	VINE TYPE	SKIN COLOR / RIBBING	HANDLE COLOR / LENGTH	DISEASE RESISTANCE	USES & REMARKS
CAPTAIN JACK	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).
DIABLO	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.
EARLIPACK	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.
EL TORO	25-35 lb, 13 x 13" / Round blocky	105	Indeterminate	Deep dark orange / Deep ribbed	Dark green / 5"	IR: Px	Extra-large fruit with a large, strong handle, dark orange color and deep ribbing.
FALL SPLENDOR	5-6 lb, 6.7 x 8.0" / Round blocky	105	Semi-determinate	Dark orange / Medium ribs	Dark green / 4.5"	IR: Px	Very uniform blocky-round shape, average weight runs 5 to 6 lb.
FALL SPLENDOR PLUS	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.
HIJINKS	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.
HONKY TONK	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.
HULK	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.
JACK SPRAT	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.
KANDY KORN PLUS	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.
LARGE MARGE	30-40 lb, 13 x 13" / Round blocky	105	Indeterminate	Dark orange / Ribbed	Dark green / 5"		Extremely large pumpkin; 30-40 lbs. per fruit.
MR. WRINKLES	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.
MRS. WRINKLES	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.
ROCKAFELLOW	2-3 lb, 5.5 x 6.5" / Tear drop	95	Bush	Dark orange / Smooth	Dark green / 4"		Hard shell and smooth skin make it ideal for painting.
SPARTACUS	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.
SPARTAN	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.
THOR	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.
TOAD	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.
WHITE FLAT BOER FORD	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.



## REGAL RED

**RADISH: 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



## CRUNCHY DELIGHT

**RADISH: 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



## CRUNCHY KING

**RADISH: 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

**RADISH: 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







## CRUNCHY CRIMSON

**RADISH: 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 RED

**RADISH: BUNCH**

Crunchy Red produces large tops and very uniform dark red, round roots. This variety is very slow to develop pith. It performs well under cool conditions. It's usually a few days earlier than standard O.P.s. Crunchy Red is desirable where larger roots are required.

- Get large-sized roots without pith in cool weather
- Excellent pith tolerance



## FIREBALL

**RADISH: 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



## CHERRIETTE

**RADISH: 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





## EASTER EGG II

**RADISH: 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

**RADISH: 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

**RADISH: 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



## GLORIETTE

**RADISH: ROUND**

Gloriette radish offers large, bright red, globe-shaped roots with medium tops. A high-quality hybrid, it is slow to develop pith or to crack at maturity. Roots have an excellent taste and display a very good shelf life once harvested.

- Slow to pith
- Good shelf life
- Slow to crack



## ICICLE SHORT TOP

**RADISH: FRESH / SPECIALTY**

Popular for bunching and home garden use, Icicle Short Top is a four to six-inch tubular, white radish with mild flavor. Adapted for use in a wide range of soil types and geographic regions, Icicle Short Top is uniform and vigorous.

- Mild flavor



## 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.



## WINNER

### RADISH: BUNCH

This Champion-type radish offers excellent exterior color, medium tall tops with strong root attachments and exceptional field uniformity. The roots are slow to develop pith. Winner will do well under short days and cool weather. It is also tolerant to wet conditions.

## INSIDE THE INFORMATION

VARIETY	DAYS TO MATURITY FROM DIRECT SEED*	TOP LENGTH	ROOT CHARACTERISTICS	USES & REMARKS
CHAMPION <sup>OP</sup>	28	Medium	Globe, bright red	Late to get pithy. Strong tops for upland soils. Performs well for bunching and shipping.
CHERRIETTE	24	3"	Globe, cherry red	Short top type for bunch or cello. Grows well in warm regions. Very uniform size and shape.
CRUNCHY CRIMSON	28	4"	Round, dark red roots, medium-large	Vigorous top under cool condition. High yields with good uniformity.
CRUNCHY DELIGHT	28	Medium	Round, scarlet red, large	Delight displays excellent yield potential, especially in Northern growing areas.
CRUNCHY KING	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.
CRUNCHY RED	28	4"	Round to globe, scarlet red, medium-large	Can get large sized roots without pith in cool weather. Excellent for bunching.
CRUNCHY ROYALE	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.
EASTER EGG II <sup>OP</sup>	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.
FIREBALL	30	3.5"	Round, dark red	Performs well in warm weather. Hybrid uniformity.
FRENCH BREAKFAST <sup>OP</sup>	25	Medium	Oblong, scarlet with white tip	Excellent for home garden. Delicate flavor.
GLORINETTE	28	8"	Round, bright red, large	Roots have an excellent taste and display a very good shelf life once harvested.
ICICLE SHORT TOP <sup>OP</sup>	29	Tall	Elongated tapered, white	Mild flavor. Popular for both home garden and fresh market.
REGAL RED	24	Medium-short	Round, scarlet red	Regal Red is a fast-maturing summer radish variety that produces uniform, round bulbs.
STARGAZER	55-60	Medium-tall	Globe, rosy pink	Mild flavor. Popular for both home garden and fresh market.
WINNER	26-28	Medium-tall	Round, dark red	Strong, tall tops, best for bunching. Performs well under short days and cool weather. Superior field uniformity.

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



## SAKATA SPINACH

Take advantage of our range of innovative baby leaf and processing spinach varieties bred for outstanding performance! Count on Sakata spinach to provide consistent uniformity, multi-market fit, exceptional color and premium disease packages. With rigorous trialing and guaranteed, outstanding customer service and sales support, the best choice is also the easiest – go with Sakata!

C2-606





## LAKESIDE

### SPINACH: 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



## OCEANSIDE

### SPINACH: 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



## RIVERSIDE

### SPINACH: 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.

- Very dark green
- Downy mildew resistance



## SEASIDE

### SPINACH: BABY LEAF

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 and uniform leaf
- Very dark green color



## COUNTRYSIDE

### SPINACH: 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

### SPINACH: 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



## C2-606

### SPINACH: 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







## IMPERIAL BEACH

### SPINACH: 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

### SPINACH: 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



## IMPERIAL STAR

### SPINACH: PROCESSING

Imperial Star is a fast growing Asian type spinach that has smooth, medium green leaves. It has an upright plant habit with strong sturdy petioles. This variety is a cold tolerant variety with a low bolt tolerance. A preferred planting window for Imperial Star is late fall or early winter. Its uses include: fresh markets – bunch.

- Fast growing
- Cold tolerance
- Downy Mildew resistance



## OLYMPIA

### SPINACH: 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



## PERSIUS

### SPINACH: 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



## PLYMOUTH

### SPINACH: 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



## INSIDE THE INFORMATION

VARIETY	TYPE	DAYS TO MATURITY FROM DIRECT SEED*	PLANT TYPE / LEAF SHAPE	LEAF COLOR	BOLTING RESISTANCE	DISEASE RESISTANCE	USES & REMARKS
C2-606	Micro / Baby Leaf	12-13 / 20-25	Upright / Smooth, spade	Dark green	Excellent	HR: Pfs: 1-9, 11-16, 18-19	This variety is a slower growing variety that is well suited for warmer planting slots.
COUNTRYSIDE	Baby Leaf	23-27	Upright / Smooth, oval, round	Dark green	Moderate	HR: Pfs: 1-12, 14-16, 19	Countryside has good holding ability for baby leaf and it has acceptable bolt tolerance for fresh market growers.
DARKSIDE	Baby Leaf	27-32	Upright / Smooth, oval, round	Dark green	Moderate	HR: Pfs: 1-12, 14-16, 19	It has a slow to moderate growth habit. It makes an excellent choice for baby leaf growers.
IMPERIAL BEACH	Mature	35-40	Upright / Smooth, Asian, heavily-lobed	Dark green		HR: Pfs: 1-11, 13, 15, 16	It has an upright plant habit making it easy to harvest.
IMPERIAL STAR	Mature	30-37	Smooth, upright / Asian	Green	Low	HR: Pfs: 1-7, 9, 11, 13, 16	This variety is a cold tolerant variety with a low bolt tolerance.
IMPERIAL VALLEY	Mature	30-40	Upright / Slightly lobed, Asian	Dark green		HR: Pfs: 1-11, 13, 15, 16	It has fast growth and an upright plant habit making it a great choice for bunch growers.
LAKESIDE	Micro / Baby Leaf	12-13 / 25-30	Erect / Smooth, round, oval	Dark green	High, moderate	HR: Pfs: 1-11, 15-16, 19 IR: Pfs: 12, 14	Very versatile variety that can be used for baby leaf, bunch or clip.
NO. 5633	Processing	45-50	Upright / Slightly lobed, smooth	Green	High	HR: Pfs: 1-5, 8, 9, 11-12	No. 5633 has a moderate bolt tolerance and downy mildew resistance. Its uses include fresh market and processing.
OCEANSIDE	Baby Leaf	25-30	Erect / Smooth, round, oval	Dark green	Low	HR: Pfs: 1-9, 11, 13, 15-16, 18-19 IR: Pfs: 12, 14	Oceanside is a versatile variety that can be used for baby leaf, bunch or clip.
OLYMPIA	Processing	45-50	Smooth, semi-upright / Oval	Green	High	HR: Pfs: 1-3, 5, 8, 9, 11, 12, 14, 16	A bolt tolerant variety for spring and summer production.
PERSIUS	Processing	45-50	Smooth, semi-upright / Semi lobed	Green	Moderate	HR: Pfs: 1, 3, 5, 8, 9, 11-12, 14, 16 & HR: Ao	Well suited for multi-cuts for processing markets.
PLYMOUTH	Processing	40-45	Smooth, uniform / Erect, upright	Dark green		HR: Pfs: 1-11, 13, 15, 16	Plymouth is a moderate to fast-growing variety and has great yield potential.
RIVERSIDE	Baby Leaf	25-30	Smooth, upright / Spade	Very dark green	Moderate	HR: Pfs: 1-11, 15-16, 19 IR: 12, 14	A very dark green, spade shape baby leaf variety.
SEASIDE	Micro / Baby Leaf	12-13 / 25-30	Smooth, upright / Spade	Dark green	Moderate	HR: Pfs: 1-11, 15-16, 19 IR: 12, 14	A slow growing, smooth dark baby leaf variety.

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

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





## ATLAS

### SQUASH: BUTTERNUT

This commercial F1 hybrid butternut offers high yields of uniformly-sized and shaped fruit. Atlas is a mid-maturing variety at 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



## LITTLE DIPPER

### SQUASH: 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



## POLARIS

### SQUASH: 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

### SQUASH: 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



## KURIHOMARE

**SQUASH: 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



## GENESIS

**SQUASH: 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



## ZODIAC

**SQUASH: BUTTERNUT**

Zodiac is a butternut squash that is medium to large in size (4-6 lb). Fruit have an elongated Waltham shape with shallow ribbing which makes it ideal for the fresh cut and processing market. The plant habit is full vine, vigorous and produces very uniform shape and sized fruit.

- Elongated Waltham shape with shallow ribbing
- Full vine and a very vigorous plant
- Very uniform shape and size
- Disease Resistance IR: Px



## SWEET DUMPLING

**SQUASH: 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



## PRIMAVERA

### SQUASH: 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

### SQUASH: 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



## TIVOLI

### SQUASH: 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



## ENDEAVOR

**SQUASH: 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

**SQUASH: 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



## SYMPHONY

**SQUASH: ZUCCHINI**

Symphony is a large, open, vigorous plant with small spines. It is an easy to harvest, high-yielding plant with medium-dark green, glossy fruit. This variety is suitable for many growing areas.

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





## TRIUMPH

### SQUASH: 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



## COMETA

### SQUASH: LEBANESE

This variety is a Lebanese type squash offering great productivity of good quality fruit on a vigorous plant. Cometa has a bulbous shape with dark green color sprinkled with bright light green color. It has an excellent post harvest shelf life.

- Excellent shelf life
- Nutty flavor



## VENUS

### SQUASH: ZUCCHINI

Venus is a nice addition to the grey zucchini type squash. This hybrid is an open plant and has very few spines, making it easy to harvest. The fruits are straight with a nice appearance for the market. Venus shows heavy fruit setting, making good yield. This squash is most suitable for fresh market.

- Easy to harvest
- Good yield
- Most suitable for fresh market



## INSIDE THE INFORMATION

VARIETY	TYPE	DAYS TO MATURITY FROM DIRECT SEED*	FRUIT SHAPE	SIZE / WEIGHT	SKIN CHARACTERISTICS	PLANT HABIT	USES & REMARKS
ATLAS	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.
COMETA	Lebanese	48	Bulbous	5 x 1-2"	Light green	Vigorous	Excellent post-harvest shelf life. Preferred skin color and fruit shape.
ENDEAVOR	Zucchini	45	Cylindrical	7 x 2"	Dark green	Large, open	Uniform, glossy fruit. Maintains shape. High yields. Disease Resistance IR: ZYMV / WMV / PRSV/ Sf
FIESTA	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.
GENESIS	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
KURIHOMARE	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.
LITTLE DIPPER	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
POLARIS	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
PRIMAVERA	Spaghetti	90	Oval	Medium / 2.5-3 lb	Smooth, canary yellow	Restricted vine	High-yielding hybrid. Excellent uniformity in size and shape
QUANTUM	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
SUPER DELITE	Kabocha	100	Oblate	4.5 lb	Dark green with yellow flesh	Vigorous	Very nutty texture with extremely sweet taste.
SWEET DUMPLING <sup>OP</sup>	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.
SYMPHONY	Zucchini	45	Cylindrical	7 x 2"	Dark green	Large, open	Widely adapted with high yield potential. Disease Resistance IR: ZYMV / WMV
TIVOLI	Spaghetti	98	Oval	Large / 4-5 lb	Smooth, light creamy yellow	Vigorous	Unique, space saving bush habit with typical spaghetti squash fruit. AAS winner.
TRIUMPH	Zucchini	44	Cylindrical	7.5 x 1.75-2"	Smooth, medium dark green	Open, semi upright	Excellent yield potential.
VEGETABLE SPAGHETTI <sup>OP</sup>	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.
VENUS	Lebanese	48	Bulbous	5 x 1-2"	Light green with striping	Medium-large	High yielding. Best for fresh market. Disease Resistance IR: Sf
ZODIAC	Butternut	100-110	Elongated	4-6 lb	Tan at maturity with orange flesh	Vigorous	The plant habit is full vine, vigorous and produces very uniform shape and sized fruit. Disease Resistance IR: Px

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





## CELEBRATION

SWISS CHARD: 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

## ELDORADO

SWISS CHARD: 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



## FIRE FRESH

SWISS CHARD: 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



## FORDHOOK GIANT

SWISS CHARD: BABY LEAF / MATURE

Fordhook Giant is a faster growing Swiss chard variety. It has white petioles with large, semi-savoy, green leaves. It is a bolt tolerant variety and has an upright plant habit. Fordhook Giant is the perfect choice for fresh market growers or home gardeners.

- Fast growing
- Large white petioles
- Perfect for fresh markets





## PEPPERMINT

SWISS CHARD: 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 strips
- Dark green, glossy leaves
- U.S. PVP No. 201100151

## RHUBARB

SWISS CHARD: 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



## RUBY FRESH

SWISS CHARD: 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 and bright red petiole color
- Moderate growing



## SILVERADO

SWISS CHARD: 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



## SAKATA TOMATOES

Sakata has multiple strategically positioned global tomato breeding programs with teams that actively interact to support the design and development of innovative and unique varieties that provide advantages to our customers within the tomato business sphere. We strive to continue improving our support and service while building our relationships to better meet your needs.



## CARMESIN

### TOMATO: 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

### TOMATO: 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

### TOMATO: 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



## CONDE

### TOMATO: 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



## SWEET HEARTS

### TOMATO: 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



## MISTRAL

### TOMATO: INDETERMINATE GRAPE

Mistral is a productive variety with smooth oval shaped fruit of medium to large size. Plants have medium vigor, are very productive and maintain size well through the plant. Mistral has intermediate resistance to TYLCV: Is\*.

- Excellent fruit set
- Very uniform shape and size
- Suited for open field, low tech and medium tech production



## GOLD SPARK

### TOMATO: INDETERMINATE GRAPE

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

- Good disease resistance
- Very good fruit size and yield potential
- Strong vigor with medium plant height



## BRAVEHEART

### TOMATO: INDETERMINATE CHERRY

Braveheart is a very versatile variety suited for low and medium-tech production as well as home garden and roadside markets. It has a more compact growth habit, is very prolific and has excellent flavor. Fruit are small and ripen to a brilliant red color, have a shiny appearance and a good shelf life.

- Delicious fruit flavor
- Excellent crack resistance
- Early maturing and versatile





## SWEET GOLD

**TOMATO: 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



## SWEET MILLION

**TOMATO: 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



## SWEET TREATS

**TOMATO: 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



## BELLA ROSA

**TOMATO: DETERMINATE SALAD**

Bella Rosa has smooth, attractive fruit and good heat setting ability. The large firm, smooth-shouldered fruit have good flavor. Suited for both mature green and vine ripe markets. The plants are medium tall and benefit from light to no pruning. Bella Rosa has a concentrated set and high yield potential.

- Good heat-setting ability
- Well adapted for Eastern US production
- Large to extra-large fruit



## CAMARO

**TOMATO: 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

**TOMATO: 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: Is\*



## LAGUNA RED

### TOMATO: DETERMINATE SALAD

Laguna Red is a high quality determinate salad variety well suited for cool season production. Fruit are an attractive red, very firm and smooth-shouldered with good flavor. The plants are medium tall and benefit from light pruning. Laguna Red has a mid-concentrated set and high quality.

- Very firm, excellent color
- Extra-large fruit size with high quality
- Both vine ripe and mature green markets



## ROADSTER

### TOMATO: 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



## RED SNAPPER

### TOMATO: DETERMINATE SALAD

Red Snapper is an adaptable determinate salad variety used in multiple productions 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



## STM2255

### TOMATO: 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



## THUNDERBIRD

### TOMATO: 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

### TOMATO: 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



## DAYTONA

### TOMATO: 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: Is\*.

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



## MARIANA

### TOMATO: 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



## FENICIO

### TOMATO: DETERMINATE SALADETTE

Fenicio is a mid to mid-late maturing variety, 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. The deep red fruit are very smooth, uniform, very firm with good external and internal red color.

- Very firm
- Extra large fruit
- High yield potential



## BUENA VISTA

### TOMATO: DETERMINATE SALADETTE

Buena Vista is an elongated blocky shaped variety with a strong vigorous plant and good general disease resistance. Fruit are red, very firm, with a good shelf-life. The variety is mid maturing and has strong cover. Buena Vista has potential to be used in multiple slots and regions across Mexico and in international markets.

- Very firm
- High yield potential
- Strong disease package





## SHELBY

**TOMATO: 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 to 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.



## MORAZAN

**TOMATO: 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



## ROMANO

**TOMATO: DETERMINATE SALADETTE**

Romano is an elongated blocky shaped variety with high yield potential and extra-large fruit size. Fruit are an attractive red color with good firmness. The plants are medium to medium tall, have good cover and is best suited for staked culture, high tunnel production in warm and dry production regions.

- Extra-large and large fruit
- High yield potential
- Strong disease package



## BOTERO

**TOMATO: INDETERMINATE SALAD**

Botero is an extra-large fruited variety with high quality and color. The maturity is mid. The fruit are oblate in shape, uniform, extra firm, and have a deep red color at maturity. The plant has mid internodes and vigor and is well suited for high-tunnel, low and mid-tech protected culture with good early set in warm conditions.

- Well balanced and generative
- Good early set in warm conditions
- Excellent firmness, uniformity, color and size





## RUBEE DAWN

### TOMATO: 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 PRIZE

### TOMATO: 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 PLUS

### TOMATO: 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

### TOMATO: 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



## LATINO

### TOMATO: INDETERMINATE SALADETTE

Latino has mid maturity, large to extra-large fruit that has high fruit quality, well suited for the export markets. The fruit are blocky oval in shape, very uniform, firm, and have a bright red color at maturity. The productive plant has short internodes with mid vigor and is well suited for low and mid-tech protected culture.

- Easy to manage plant
- Ideal for hot to cold season
- Export quality, color, uniformity



## OPTIMAX

### TOMATO: INDETERMINATE SALADETTE

Optimax is a large to extra-large fruited indeterminate red saladette that has wide adaptability and high fruit quality. Optimax has mid-level maturity. The fruit are oval in shape, uniform, firm, and show a bright red color at maturity. Optimax performs well when growing under conditions from warm to cool and for long cycle production.

- Vigorous and productive plant
- Ideal for hot and cold season
- Fruits of excellent quality and high performance



## SÚPER ÓPTIMO

**TOMATO: INDETERMINATE  
SALADETTE**

Súper Óptimo is a large to extra-large saladette with high fruit quality. Uniform oval fruit are firm and have a bright red color at maturity. Productive and balanced plants have short internodes with mid vigor and perform well when growing under conditions from warm to cool and for mid and long cycle productions.

- Export quality fruit
- Easy to manage plant
- Ideal for hot and cold season



## PORTOS

**TOMATO: 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



## VILLA

**TOMATO: 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



## BOWMAN

**TOMATO: ROOTSTOCK**

Bowman has a strong disease resistance package and is suited for short to mid production cycles. This specialized rootstock is intended for areas that can have challenges with Fol: 1-3, Bacterial Wilt and Verticillium race 2. It has mid to strong vigor with a relatively thick stem making grafting easier and more efficient.

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



## SYNERGY

**TOMATO: 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

**TOMATO: 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



# INSIDE THE INFORMATION

VARIETY	TYPE	RELATIVE MATURITY***	FRUIT CHARACTERISTICS	DISEASE RESISTANCE	USES & REMARKS
<b>SPECIALTY</b>					
<b>CARMESIN</b>	Determinate Grape	Early	Oval / Bright red	HR: Fol: 1, 2 / For / ToMV: 0-2 IR: Sbl / Sl / Ss	Good set with good size, and good earliness.
<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>BRAVEHEART</b>	Indeterminate Cherry	Early	Cherry round / Bright red	HR: Fol: 1 / For / Pf: A-E / ToMV: 0, 1 IR: Sbl / Sl / Ss	Short internodes, great yield potential, excellent flavor.
<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>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: Is*	Very good yield potential and strong disease resistance.
<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>MISTRAL</b>	Indeterminate Grape	Early	Oval / Red	HR: Fol: 1, 2 / Pf: A-E / ToMV: 0-2 IR: Ma / Mi / Mj / Sbl / Sl / Ss / TYLCV: Is*	Suited for open field, low tech and medium tech production.
<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>BELLA ROSA**</b>	Determinate Salad	Mid-early	Oblate / Red	HR: Aal / Fol: 1, 2 / Va: 1 / Vd: 1 IR: Sbl / Sl / Ss / TSWV	Adaptable compact variety with good eating quality.
<b>CAMARO</b>	Determinate Salad	Early	Globe / Red	HR: Aal / Fol: 1-3 / Va: 1 / Vd: 1 IR: Sbl / Sl / Ss / TYLCV: Is*	Early high yielding hot set with limited to no pruning required.
<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: Is*	Early maturity for a main season hot set type.
<b>LAGUNA RED</b>	Determinate Salad	Early	Deep oblate / Scarlet red	HR: Aal / Fol: 1, 2 / For / ToMV: 0-2 / Va: 1 / Vd: 1 \\ IR: Sbl / Sl / Ss / TYLCV: Is*	Excellent, quality, shelf life and color.
<b>RAMBLER</b>	Determinate Salad	Mid	Deep oblated, 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: Is*	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: Sbl / Sl / Ss / 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: Is*	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: Is*	Extra-large quality hot set variety.
Disease terminology: HR = High Resistance, IR = Intermediate Resistance. Disease code: Aal - Alternaria stem canker, Fol - Fusarium wilt, For - Fusarium crown and root rot, Lt - Powdery mildew, Ma / Mi / Mj - Root knot, Pf (Ff) - Leaf mold, Pst - Bacterial speck, Pi - Late Blight, Pl - Corky root, Rs - bacterial wilt, Sbl / Sl / Ss - Gray leaf spot, ToMV - Tomato mosaic, TSWV - Tomato spotted wilt, TYLCV - Tomato yellow leaf curl, Vd - Verticillium wilt.					

VARIETY	TYPE	RELATIVE MATURITY***	FRUIT CHARACTERISTICS	DISEASE RESISTANCE	USES & REMARKS
<b>ROUND / SALAD</b>					
<b>BOTERO</b>	Indeterminate Salad	Early, mid-early	Oblate / Red	HR: Fol: 1, 2 / Pf: A-E / ToMV: 0-2 / Va: 1 / Vd: 1 IR: Ma / Mi / Mj / TYLCV: Is*	Good early set in warm conditions.
<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.
<b>ROMA / SALADETTE</b>					
<b>BUENA VISTA</b>	Determinate Saladette	Mid	Blocky elongated / Red	HR: Aal / Fol: 1-3 / Pst: 0 / Va: 1 / Vd: 1 IR: TSWV / TYLCV: Is*	Very firm, long shelf life and strong disease package.
<b>DAYTONA</b>	Determinate Saladette	Early	Blocky elongated / Red	HR: Aal / Fol: 1, 2 / Va: 1 / Vd: 1 IR: Ma / Mi / Mj / TYLCV: Is*	Well suited for TYLCV: Is* pressure slots, great fruit quality.
<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>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>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>ROMANO</b>	Determinate Saladette	Mid	Blocky elongated / Red	HR: Aal / Fol: 1-3 / Va: 1 / Vd: 1 IR: Ma / Mi / Mj / Sbl / Sl / Ss / TSWV	Suited for production in warm and arid regions.
<b>SHELBY</b>	Determinate Saladette	Mid	Elongated / Dark red	HR: Aal / Fol: 1, 2 / For / Pst: 0 / Va: 1 / Vd: 1 IR: TSWV / TYLCV: Is*	Multifunctional with a strong resistance package and Classic elongated shape.
<b>LATINO</b>	Indeterminate Saladette	Mid	Blocky oval / Bright red	HR: Aal / Fol: 1-3 / ToMV: 0-2 / Va: 1 / Vd: 1	Uniform ripening, high export quality percentage.
<b>OPTIMAX</b>	Indeterminate Saladette	Mid	Oval / Bright red	HR: Aal / Fol: 1, 2 / Pst: 0 / Va: 1 / Vd: 1	Widely adapted, compact and easy to grow.
<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>SUPER OPTIMO</b>	Indeterminate Saladette	Mid	Oval / Bright red	HR: Aal / Fol: 1-3 / Va: 1 / Vd: 1	Mid vigor, high export quality percentage
<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>ROOTSTOCK</b>					
<b>BALANCE</b>	Rootstock	-	Mid-strong vigor	HR: Fol: 1-3 / For / ToMV: 0-2 / Va: 1 / Vd: 1 IR: Ma / Mi / Mj / PI	It is well suited for use in soil or hydroponic systems for medium and long cycles.
<b>BOWMAN</b>	Rootstock	-	Mid vigor	HR: Fol: 1-3 / For / ToMV: 0-2 / Va: 1 / Vd: 1, 2 IR: Ma / Mi / Mj / PI / Rs	For short cycles where resistance to bacterial wilt and verticillium wilt race 2 can be challenges.
<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.
<p>* - TYLCV: Is = Tomato yellow leaf curl virus: Israel strain.</p> <p>** - This hybrid was developed in cooperation with the University of Florida's Food and Agricultural Sciences tomato breeding program.</p> <p>Ma / Mi / Mj - Soil temperatures above 80.6 °F (27°C) and other stress conditions may cause Mi resistance to break.</p> <p>*** - Relative Maturity is an approximation and may fluctuate due to varying planting times, location and conditions.</p>					



## SAKATA WATERMELON

Sakata's collection of high-yielding, seedless watermelon offer a triple-threat of features and benefits, including early or mid-maturity, very firm flesh and delicious flavor. With a choice of size, dark or traditional rind, and maturity rate, selecting the right varieties for your program, slot and end-use has never been easier. Backed by an expert team spanning coast to coast, count on receiving top-quality genetics backed by the service and support for which Sakata is known.

SIERRA MADRE





## EL CAPITAN

**WATERMELON: 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

**WATERMELON: 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



## SIERRA NEVADA

**WATERMELON: 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



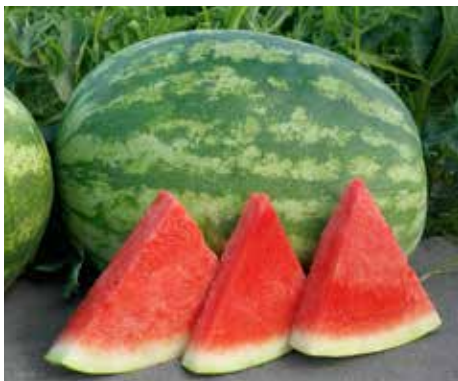
## PREAKNESS

**WATERMELON: 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





## KINGMAN

**WATERMELON: CRIMSON SWEET TRIPLOID**

Kingman Wins! Results from the University of Georgia Variety Evaluation (2016) have been published, and Kingman has been identified as top yielder of the trial as well as the 36-count category. Kingman is a 36/45-count watermelon that offers firm, crisp flesh and tiny pips. Plus, it has strong vines and has high yield potential. Bright red, tasty flesh makes this a melon great for eating.

- High yield potential
- Nice round-oval shape
- Excellent main-season choice



## CHARISMATIC

**WATERMELON: CRIMSON SWEET TRIPLOID**

Charismatic is a fantastic variety featuring early maturity coupled with firm, crisp flesh, making this watermelon an easy choice for growers. Charismatic features strong, vigorous vines and has excellent yield potential. For best results, use a Sakata early pollenizer when growing this variety.

- Early maturing variety with good cold-setting ability
- Tiny pips, very uniform and productive
- 45-count with strong and vigorous vines



## SECRETARIAT

**WATERMELON: CRIMSON SWEET TRIPLOID**

This beautiful, 45-count racehorse belongs to a team of exciting watermelons from Sakata! Secretariat is an early-maturing variety that is very high yielding. It offers a smooth, medium-green exterior with green stripes and has a nice round-oval shape. Interior characteristics include tiny pips and firm, crisp, deep red flesh.

- Early maturing variety with good cold-setting ability
- Crimson rind pattern
- For optimum results, use a Sakata early pollenizer



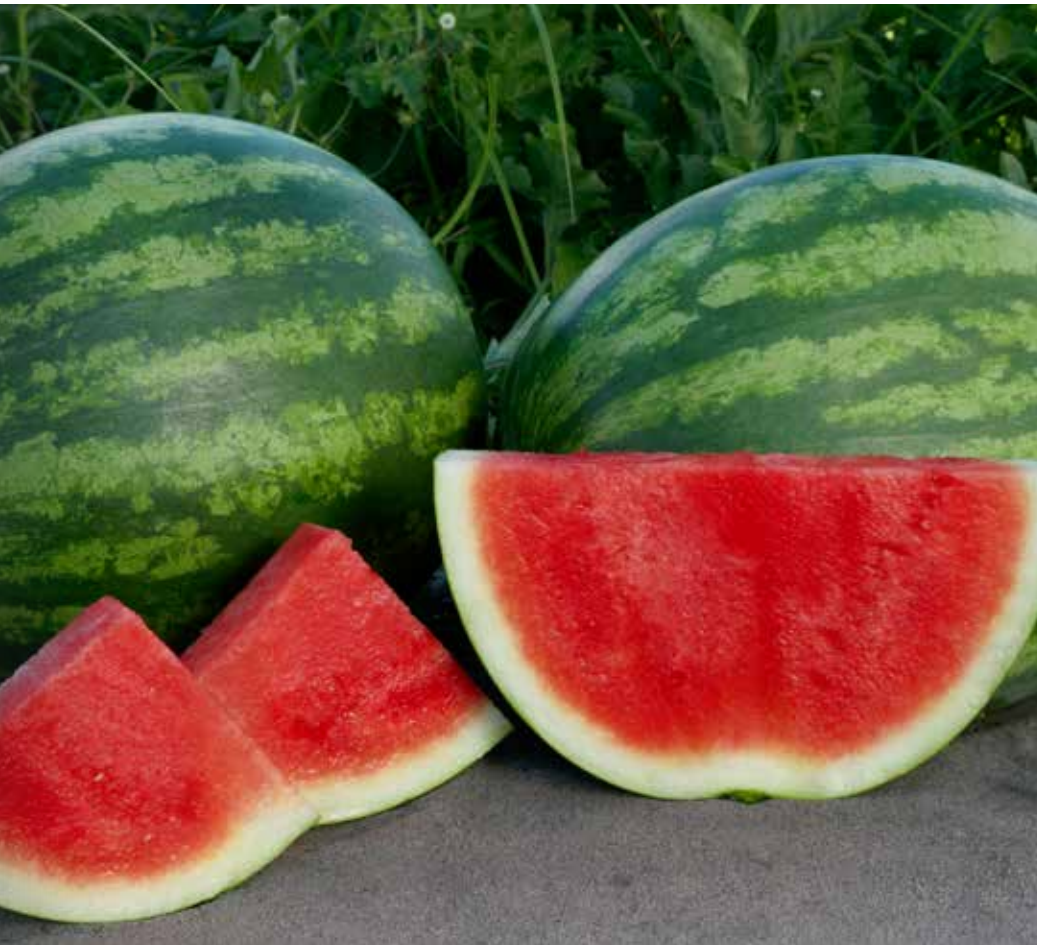
## CITATION

**WATERMELON: 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





## UNBRIDLED

**WATERMELON: 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



## BELMONT

**WATERMELON: CRIMSON SWEET TRIPLOID**

Belmont represents our first generation of mini watermelons and weighs in at 6-10 lb. It offers extremely deep red flesh color and excellent demarcation. Belmont features an extremely strong and vigorous vine with excellent yield potential. For best results, use a Sakata early pollinizer when growing this variety.

- Extremely firm flesh
- For optimum results, use a Sakata early pollinizer



## ECLIPSE

**WATERMELON: 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



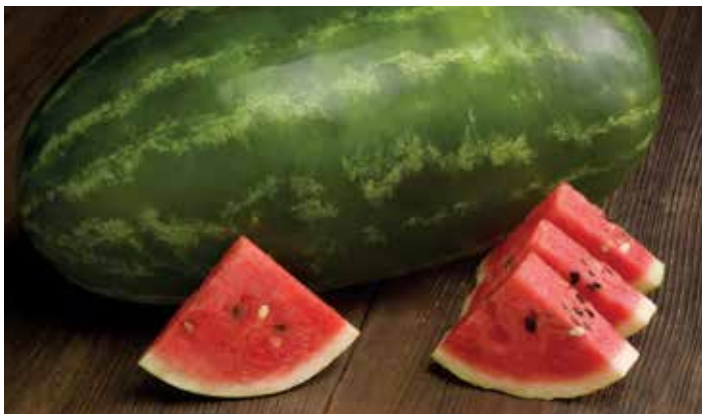
## YELLOW BUTTERCUP

**WATERMELON: 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





## SSX8585

### WATERMELON: DIPLOID / POLLENIZER

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



## ACE PLUS

### WATERMELON: POLLENIZER

Ace Plus offers a very early flowering date that make pollen available for the first female flowers produced by the hybrid. Plus, it continues to flower well beyond the hybrid.

- Small, explosive gray fruits for easy harvest
- IR for both Fon 1 and Co 1
- U.S. Patent Number 10,188,055



## ACE

### WATERMELON: 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

### WATERMELON: 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-striped rind pattern
- Excellent pollen quality for maximum yield



## WILD CARD

### WATERMELON: 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-striped 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

## INSIDE THE INFORMATION

VARIETY	TYPE	DAYS TO MATURITY FROM TRANSPLANT	SIZE / SHAPE	RIND CHARACTERISTICS	INTERIOR COLOR	DISEASE RESISTANCE	USES & REMARKS
SSX8585	Allsweet / Pollenizer	90	18-22 lb / Long blocky	Dark green background with light green stripes	Deep red	IR: Co:1 / Fon:1	High yields, black seeded.
CHARISMATIC	Crimson Sweet triploid	83	16-20 lb / Round oval	Medium green background with dark green stripes	Bright red		Early maturing variety with good cold-setting ability.
CITATION	Crimson Sweet triploid	78	12-14 lb / Round oval	Dark green background with green stripes	Dark red		A true 60-count that sets well in cool conditions.
EL CAPITAN	Crimson Sweet triploid	85-90	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.
KINGMAN	Crimson Sweet triploid	85	18-22 lb / Round oval	Light green background with medium green stripes	Bright red		It is a 36/45-count watermelon that offers firm, crisp flesh and tiny pips.
SECRETARIAT	Crimson Sweet triploid	80	16-20 lb / Round oval	Light green background with medium green stripes	Bright red		Early maturing variety with good cold-setting ability.
SIERRA MADRE	Crimson Sweet triploid	85-90	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.
SIERRA NEVADA	Crimson Sweet triploid	85-90	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.
UNBRIDLED	Crimson Sweet triploid	85	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!
BELMONT	Crimson Sweet triploid, mini	90	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.
PREAKNESS	Crimson Sweet triploid, mini	75	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.
YELLOW BUTTERCUP	Jubilee triploid	90	14-16 lb / Round oval	Dark green background with green stripes	Bright yellow		A highly regarded yellow flesh variety. High yields. Dense flesh.
ACE PLUS	Pollenizer	—	Round oval	Light green with medium green stripes	Red	IR: Co:1 / Fon:1	Flowering extends well beyond the flowering period of the hybrid.
ACE	Pollenizer	—	Round oval	Light green with medium green stripes	Red		Non-harvestable pollenizer for use with seedless production.
WILD CARD PLUS	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.
WILD CARD	Pollenizer	—	Round oval	Light green background with medium green veins	Yellow		Small fruits have a tiger-striped rind pattern which differs from most of the commercial triploid hybrids.
ECLIPSE	Sugar Baby triploid	80	10-12 lb / Round	Black green, smooth	Red		High yielding Sugar Baby type; 10–12 lbs. Excellent, unique flavor.

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

Sakata Seed America, Inc. ("Sakata") warrants that the seeds in the container are as described on the container, subject to tolerances established by law. THE FOREGOING EXPRESS WARRANTY EXCLUDES ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, ORAL OR WRITTEN, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR WARRANTY AGAINST INFRINGEMENT. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION HEREON. Due to events outside the reasonable control of Sakata, including (but not limited to) adventitious pollen contamination due to pollen drift caused by wind and/or insects, SAKATA DOES NOT WARRANT THAT THE SEED PRODUCED BY SAKATA IS COMPLETELY FREE OF GENETICALLY MODIFIED ORGANISMS. ANY PERSON WHO BUYS, RECEIVES, PLANTS OR USES THE SEED (COLLECTIVELY THE "RECIPIENT") ACKNOWLEDGES THAT SAKATA EXCLUDES ANY WARRANTY AS TO COMPLETE FREEDOM FROM THE PRESENCE OF ANY GENETICALLY MODIFIED ORGANISMS. By accepting the seed, opening the seed container, retaining, planting and/or using the seed, Recipient agrees that Sakata's liability and Recipient's exclusive remedy for any breach of warranty claim or any claim based on any other or different legal theory, shall be limited, in all events, to a return of the purchase price of the seed, and in no event shall Sakata be liable for any incidental or consequential damages. All claims must be presented within a reasonable time after discovery and in no event more than thirty (30) days after the defect in the seed becomes apparent. The illustration label represents kind only. Variety may differ from the illustration in color, shape, and size. Unless accepted on the foregoing terms, Recipient shall return the seed in the original unopened container within 15 days of purchase for a refund of the purchase price.

**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.

# Seed Enhancement ADVANTAGE



## Why Invest in Primax® Primed Seed?

- Increases the rate of germination compared to unprimed species, especially under stressful planting conditions or fluctuating temperatures
- Provides for earlier and stronger stand establishment and enhances crop uniformity
- Provides a higher useable plant percentage
- Can reduce seeding rates for many crops
- Reduces the number of days to harvest or transplanting
- Reduces period of intense watering after planting
- Allows for more precise weed management by providing a fast uniform start
- Reduces production and harvesting costs, and improves yield potential

## Shelf Life of Primax® Primed Seed

Though Sakata's hydration process is more natural than other priming processes and does result in greater storability, please note:

Primed seed should be used for immediate growing season with carry-over being avoided. Primed lots held over time may deteriorate and should be retested before planting. Shelf life varies by crop species, seed lot, and storage conditions.

## Transport and Storage Recommendations

For storage, maintain temperatures at or below 68°F (20°C). Avoid cycling temperatures and retest if exposure to high temperature is suspected.

## ENHANCEMENT TECHNOLOGIES AT-A-GLANCE

### PERFORMAX® HIGHEST QUALITY SEED

Precision-graded seed that meets the highest germination, hybridity and vigor standards. For Broccoli, Performax® seed is also density-graded for greater uniformity.

### PRIMAX® PRIMED

Performax® seed is primed for enhanced performance, especially under stressful planting conditions. Processing is customized to each lot's specific characteristics. Extensively tested to assure quality.

### PROMAX™ PELLETED

Pelleted seed to aid in precision planting for greenhouse or open field sowing.

### PRIMAX-PLUS® PRIMED AND PELLETED

Our Performax® highest quality seed pelleted and primed for high performance and greater uniformity.





**The Sakata Seed America Mission:**

To contribute sustainably to the betterment of life and culture of people around the world with values created through our innovative flower and vegetable varieties and through our services.

**SAKATA SEED AMERICA, INC.**

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