



**SAKATA®**



# Home Grown

VEGETABLE SEED CATALOG



# Bringing Quality Varieties to the Home Garden and Local Grower Markets

Sakata Home Grown offers premium customer service, comprehensive support and superior products. Sakata Seed has been innovating for over 100 years, providing the finest vegetable varieties curated from our world-renowned breeding programs. We distribute our seed via wholesale dealers throughout the United States and Canada. From seed packets and controlled agriculture environments to farm stands and home gardens of any size, Sakata Home Grown products are sure to garner rave reviews. Our goal is to be your supplier of choice, and we look forward to serving you in the seasons ahead.



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# Introducing our Latest AAS Winner!

All-America Selections (AAS) Winners are flowers and vegetables that have been “Tested Nationally & Proven Locally™”. Each AAS entry is tested for superior garden performance by horticulture professionals across North America.



## PURPLE MAGIC Broccoli

Introducing our AAS winner Purple Magic—the first purple stem, purple headed broccoli in the world! The large, dome-shaped heads weigh in at about 1 pound each. Purple Magic is very high in anthocyanin (a plant-based chemical called a flavonoid) and nutritious. Anthocyanin is thought to be useful in preventing cancer and inflammation. The plants grow well in all regions of the US and mature about 100 days from seeding. See more on Page 13!



Be sure to bookmark our website!  
[www.sakatahomegrown.com](http://www.sakatahomegrown.com)

✓  Downloadable copies of all **CATALOGS** and **BROCHURES**

✓  Grower and gardener-friendly **DATA** for your reference or distribution

✓  A complete **IMAGE** library

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Do you want to quickly know what varieties are best for your particular market segment or program? Use this chart to narrow down potential options.

Variety	Home Garden / Mail Order	Seed Packet Racks	Farm Markets	Bedding Plant Growers	Combo Planters	Baby / Micro Greens
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**ARUGULA:**

Astro	•	•	•	•	•	•
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**BABY BROCCOLI:**

Aspabroc	•		•	•	•	
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**BEAN:**

Jumbo	•	•				
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Orient Wonder	•	•				
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**BEET:**

Azuma	•	•	•			
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Borealis	•	•	•			
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Bull's Blood	•	•				•
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Chioggia Guardsmark	•	•	•			•
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Detroit Supreme		•				•
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Early Wonder Tall Top	•	•	•			•
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Falcon	•					•
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Fresh Pak	•	•	•	•	•	•
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Fresh Start	•	•	•	•	•	•
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Kestrel	•		•			•
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Merlin	•		•			•
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Red Ace		•	•			•
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Robin	•	•	•			
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Touchstone Gold	•	•	•			
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Vulture	•	•	•			•
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**BROCCOLI:**

Avenger			•			
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Centennial	•	•	•	•		
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Destiny	•	•	•	•		
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Diamante	•	•	•	•		
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Diplomat	•	•	•	•		
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Dynasty	•	•	•	•		
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Emerald Crown	•			•		
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Empire	•	•	•	•		
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Expo			•			
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Fortress	•	•	•	•		
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Godzilla	•		•	•		
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Green Gold	•		•	•		
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Green Magic	•	•	•	•		
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Imperial	•		•	•		
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Kingdom	•	•	•	•		
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Marathon	•	•	•	•		
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Marathon Elite	•	•	•	•		
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Maverick			•			
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Patron			•			
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Purple Magic	•	•	•	•		
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**CABBAGE:**

Blue Vantage		•	•			
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Charmont	•					
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Variety	Home Garden / Mail Order	Seed Packet Racks	Farm Markets	Bedding Plant Growers	Combo Planters	Baby Leaf / Micro Greens
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**CABBAGE (CONT):**

Emblem			•			
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Fast Vantage	•			•		
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Grand Vantage	•		•	•		
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Greenboy			•			
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Headstart	•	•	•	•		
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Osceola	•	•	•	•		
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Red Jewel	•	•	•	•		
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Royal Vantage			•			
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Savoy King	•	•	•	•		
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Stonehead	•	•	•	•		
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Storage #4	•	•				
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SuperStar	•		•	•		
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Supreme Vantage			•			
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Xtreme Vantage			•			
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**CAULIFLOWER:**

Pureza	•	•	•	•		
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Twister	•		•	•		
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**CHINESE CABBAGE:**

China Coast	•		•	•		
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China Express	•	•	•			
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China Gold	•		•			
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China King	•		•			
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China Star	•		•			
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Yoda	•		•			
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Yuki	•		•	•		•
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**COLLARD:**

Flash	•		•	•	•	•
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Top Bunch 2.0	•		•	•	•	•
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Top Chop	•		•	•	•	•
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Vates	•	•				
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**CUCUMBER:**

Slice More	•		•			
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Tasty Green	•	•	•	•		
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**EGGPLANT:**

Black Stallion	•	•	•	•		
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Shikou	•		•	•	•	
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**HERBS:**

Basil Italian Large Leaf	•	•	•	•	•	•
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Cilantro Santo	•	•	•	•	•	•
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Dill Bouquet	•	•	•	•		•
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Dill Dukat	•	•	•	•	•	•
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Parsley Dark Green Italian	•	•	•	•	•	•
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Parsley Forest Green	•	•	•	•		
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**KALE:**

Blue Ridge	•		•	•	•	•
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Improved Dwarf Siberian	•	•	•	•	•	•
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Vates Blue Curles Scotch		•		•	•	•
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**KOHLRABI:**

Quickstar	•		•			
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**KOMATSUNA:**

Savanna	•	•	•	•	•	•
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**LETTUCE:**

7436	•	•	•	•		
9017	•	•	•			•
9208	•		•	•	•	•
9409	•		•	•	•	•
9424	•	•	•	•		•
Chamisal	•		•			•
Cielo Verde	•		•	•	•	•
Fresh/Heart	•		•	•		•
Heatmaster	•		•			
Hitchhiker	•	•	•			•
Kremlin	•		•	•	•	•
Luna	•		•			
Meridian	•		•			•
Monterra	•		•			•
Omega 42	•		•			•
Portola (2743)	•		•			•
Raider	•		•			
Red Dragon	•	•	•	•	•	•
Red Tide	•		•	•	•	•
Regency 3.0	•		•			•
RL 2211	•		•	•	•	•
Saratoga	•	•	•	•	•	•
Teton	•	•	•			
Vanguard PIC	•		•	•		
Wizard	•		•	•	•	•
Zorro	•		•	•		•

**MELON:**

Alaniz Gold	•		•			
Atlantis		•				
Avatar	•		•	•		
Bit O' Gold						
Citrino	•		•			
Dali	•	•	•			
Dulce Nectar			•			
Grand Prix	•	•	•			
Infinite Gold			•			
Megabrew	•		•			
Super Nectar			•			

**MUSTARD:**

Florida Broadleaf		•		•		
Miz America	•	•	•	•	•	•

**OKRA:**

Jambalaya 2.0	•	•	•	•	•	
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**ONION:**

Ovation	•		•			
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**ONION (CONT):**

Red Sapphire	•	•	•			
SON570W	•	•	•			
Spanish Medallion	•	•	•			
White Gem	•	•	•			
Yosemite	•	•	•			

**PAK CHOI:**

Asian Delite	•	•	•	•		
Ewok	•	•	•			•
Feng Qing Choi	•		•	•		•
Joi Choi	•	•	•	•	•	•
Li Ren Choi	•		•			•
Mei Qing Choi	•		•	•		•
Toy Choi	•	•				

**PEA:**

Little SnapPea Crunch	•	•		•	•	•
Little SnapPea Petite	•	•				•
Little SnowPea Purple	•	•		•	•	•
Little SnowPea White	•	•		•	•	•

**PEPPER: HOT**

Arapaho	•		•	•	•	
Campeon	•		•	•		
Campesino	•	•	•	•		
Chaak	•	•	•	•		
Crackle	•		•	•	•	
Desperado	•		•	•		
Durango	•	•	•	•		
Early Flame	•			•	•	
Jalafuego	•		•	•	•	
Lone Ranger	•	•	•	•		
Megatron	•	•	•	•		
Pathfinder	•		•	•		
Rajah	•	•	•	•		
Sargento	•	•	•	•		
Soundwave	•	•	•	•		
Spicy Slice	•		•	•		
Trident	•	•	•	•		
Unicron	•	•	•	•		

**PEPPER: SWEET**

Arica	•	•	•	•		
Blitz	•	•	•	•		
Cherokee	•		•			
Classic	•	•	•	•		
Double Up		•		•		
Early Summer	•		•	•	•	
Grenada	•		•			
Hungarian Stuffing Trio	•		•	•	•	
Lemon Delite	•		•	•	•	

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### PEPPER: SWEET (CONT)

Lola	•	•	•	•	•	•
Majestic Red	•		•	•	•	•
Mercer	•	•	•	•		
Ninja S10	•		•			
Nitro S10	•		•			
Orange Delite	•		•	•	•	
Ruby Delite	•		•	•	•	
Samurai S10	•		•			
Shogun S10	•		•			
Takara	•		•	•	•	
Touchdown				•		
Yellow Sparkler	•		•	•	•	

### PUMPKIN:

Big Deal	•		•			
Capitan Jack	•		•			
Earlipack			•			
Fall Splendor Plus	•		•			
Hijinks	•	•	•			
Hulk	•	•	•			
Jack Sprat			•			
Kandy Korn Plus	•	•	•	•		
Large Marge	•	•				
Mr. Wrinkles	•		•			
Mrs. Wrinkles	•		•			
Rockafellow	•	•	•			
Spartacus	•	•	•			
Spartan	•	•	•			
Toad	•	•	•			
Flat White Boer Ford	•	•	•			

### RADISH:

Crunchy Crimson	•		•			
Crunchy Delight	•		•			
Crunchy King			•			
Crunchy Red	•		•			
Crunchy Royale		•				
Easter Egg II	•	•	•			
Fireball	•		•			
French Breakfast	•	•	•			
Regal Red	•	•	•			
Shunkyo Semi-Long	•		•			•
Starburst	•	•	•			

### RUTABAGA:

Laurentian	•		•			
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### SPINACH

Affluence	•		•	•		•
Countryside	•		•	•		•
Darkside	•		•	•		•
Imperial Beach	•	•	•	•	•	
Imperial Valley	•	•	•	•	•	
Income	•		•	•		•
Oceanside	•	•		•	•	•
Olympia	•	•	•	•		
Plymouth	•	•	•	•		
Prosper	•		•			•
Reward	•	•	•			•
Riverside	•	•		•	•	•
Seaside			•	•	•	•
Tribute	•	•	•			•

### SQUASH: SUMMER

Bocce	•		•			
Cometa	•		•			
Endeavor		•		•		
Fiesta	•					
Summer Surprise Mix	•	•	•			
Symphony	•		•	•		
Triumph	•	•	•			

### SQUASH: WINTER

Atlas	•					
Ceres	•		•			
Genesis	•		•			
Kurihomare	•		•			
Little Dipper	•		•			
Polaris	•		•			
Primavera	•		•			
Quantum	•		•			
Sweet Dumpling OP	•	•	•			
Tivoli	•		•	•		
Vegetable Spaghetti OP		•				
Zodiac	•		•			

### SWISS CHARD:

Celebration	•	•	•	•	•	•
Eldorado			•	•	•	•
Fire Fresh			•		•	•
Fordhook Giant		•		•		
Peppermint	•	•	•	•	•	•
Rhubarb	•	•	•	•	•	•
Ruby Fresh			•		•	•
Silverado	•			•	•	•

Variety	Home Garden / Mail Order	Seed Packet Racks	Farm Markets	Bedding Plant Growers	Combo Planters	Baby Leaf / Micro Greens
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**TOMATO, CHERRY & GRAPE:**

Bellini	•		•	•		
Braveheart	•		•			
Gold Spark	•		•	•		
Little Birdy Series	•			•	•	
Mingle Mix	•	•	•	•		
Ruby Crush	•		•	•	•	
Sweet Gold	•	•	•			
Sweet Hearts	•		•			
Sweet Million	•	•	•			
Sweet Treats	•		•			

**TOMATO, ROMA:**

Cedro	•		•	•		
Daytona	•		•	•		
Inca	•		•	•		
Invincible	•		•	•		
Kuzco	•		•	•		
Mariana	•		•	•		
Optimax	•			•		
Shelby	•	•	•	•		
Supremo	•		•	•	•	
Tachi	•		•			

**TOMATO, SLICER:**

Bella Rosa	•		•	•		
Camaro			•			
Charger	•		•	•	•	
Firebird	•		•	•		
Grand Marshall	•		•			
Laguna Red	•		•	•		
Rambler	•		•	•		
Red Pride	•	•	•	•	•	
Red Snapper	•		•	•		
Roadster	•		•	•		
RuBee Dawn	•		•	•		
RuBee Goddess	•		•	•		
RuBee Plus	•		•	•		
RuBee Prize	•		•	•		
Thunderbird	•		•	•		

**TURNIP:**

Alamo	•	•		•		•
All Top	•	•	•			
Royal Crown	•	•	•			
Southern Green		•	•			
Topper			•			
White Lady	•		•			•

Variety	Home Garden / Mail Order	Seed Packet Racks	Farm Markets	Bedding Plant Growers	Combo Planters	Baby Leaf / Micro Greens
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**WATERMELON:**

Ace	•		•			
Ace Plus	•		•			
Belmont	•		•			
Eclipse	•		•			
El Capitan	•		•			
Miramonte	•		•			
Preakness	•		•			
Secretariat			•			
Sierra Madre	•		•			
Sierra Nevada	•		•			
Sweetie Pie	•	•	•			
Wild Card Plus	•		•			
Yellow Buttercup	•		•			







**The Harvest Collection** by Sakata Home Grown is a carefully curated collection of Sakata's most garden-friendly and tasty varieties! The Sakata Home Grown team is often asked about their favorite products, so we gathered our tried and true (and top new!) picks together for the Harvest Collection. The Harvest Collection includes two assortments of Sakata varieties selected for either mail order or plant grower supply companies. These varieties are a great start for a garden or plant collection. We've also included new varieties to keep things current. When partnering with us in promoting the Harvest Collection you are agreeing to carry at least 20 collection varieties per year. In return you receive periodic "toolkits" that include files and lifestyle photos, recipes, social media post templates, use of our collection logo, and a link on our supplier page. Contact us to participate!



RECIPE  
CARDS



LIFESTYLE  
PHOTOGRAPHY



SOCIAL MEDIA  
INSPIRATION



QUICK START FOR A  
VEGGIE PLANT LINE



### ASTRO Arugula

Our selection of *Eruca sativa* boasts less deeply-lobed leaves and a milder flavor than wild arugula. The medium green leaves of Astro are wide at the top, with a slight cut to the outer edge. They have a pleasant, nutty flavor that will grow stronger as the weather warms. Slow to bolt; however, once it flowers, the tiny blooms can also be added to salads for a peppery flavor. Early maturing yet heat tolerant, Astro is ready to harvest from direct sow for baby leaf at 32-35 days and for mature leaves at 52-55 days. *Organic and non-organic seeds available.*

**ASPABROC** Baby Broccoli

Known as Broccolini® in the produce section of your grocery store and on restaurant menus, Aspabroc resembles a broccoli raab with an asparagus stem, and offers a mild taste that even the broccoli-averse like! Aspabroc is easy to grow and requires less space than traditional broccoli plants, while providing more harvestable produce. The first central shoot must be pinched, then plants will set 3-5 side shoots shortly thereafter and continue for about four weeks in mild weather. First maturity of the side shoots is 50-60 days from transplant. Broccolini® is a registered trademark of Mann Packing Company, Inc.



**Baby Broccoli**  
NUTRITION FACTS:

GOOD SOURCE OF  
VITAMIN A  
FOLATE  
IRON  
POTASSIUM

EXCELLENT SOURCE OF  
VITAMIN C  
(over 100% per serving!)

**35**  
CALORIES per  
3 oz. serving  
(around 5-6 stalks)



**JUMBO** Fava Bean

Favas are a popular bean in the Mediterranean, where they are used both as a fresh shell bean or left on the plant to dry. Our variety is easy to grow with strong, vigorous plants that are relatively tolerant of cooler conditions. The pods are dark green and shiny and produce a high ratio of three extra-large beans per pod. Pinching the first central shoots can encourage heavier yields. Suitable for outdoor culture in warm seasons and for greenhouse culture. Matures in about 80-90 days from direct sow.



**ORIENT WONDER** Bean

A pole-type bean, also known as yard-long or asparagus bean. Slender 15 to 18 inch pods can be eaten lightly steamed or added to a stir-fry. Plants are vigorous and vining. Pods are slow to form seeds, remaining tender for extended harvest. Far superior to standard strains, as it is widely adapted and able to withstand cooler, drier conditions as well as warm, humid weather. Pods are ready to harvest in about 75-85 days from direct seeding.





### AZUMA Beet

This smooth beauty is easy to grow, harvest, and clean and is so versatile in the kitchen. Azuma matures early and is quick to round out, making it a great option for baby beets. The roots have deep, saturated color and little to no zoning. The smooth exterior and small root and crown mean Azuma is easy to clean and attractive for slicing. Azuma is early, heat tolerant, and has bright green tops. Days to maturity from direct seed: 80-85.



### BOREALIS Beet

Our newest beet offers intermediate resistance to Rhizomania, a disease recently found when growing fresh beets. Borealis forms globe-shaped roots with a beautiful red interior and exterior and high brix. It is suitable for processing and for fresh use. Top height is average-tall (12-16"). Brix levels are high (12-14). Not quite as smooth as some of our other varieties. Well adapted, holds well. Matures in 85-90 days.



### FALCON Beet

Finally, a beet for gardeners with a short or warm spring season! Falcon is an excellent heat tolerant beet variety. It has medium dark red exterior and vivid red interior color. It has a nice small tap root and medium crown attachment for more usable root (less waste). Falcon grows quickly and forms a large blocky root. Matures in 80-85 days.



### FRESH PAK Beet Greens

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. Days to maturity from direct seed; 28-32.



### KESTREL Beet

Kestrel's hybrid vigor leads to an early, uniform plant stand. Its ability to develop a round shape at an early stage makes it an excellent candidate for baby beet production. This variety can also be stored for extended periods of time when harvested at full maturity. For fresh market, main season and baby beets. Early, with hybrid vigor, uniformity, and yield. High sugar content. Matures in 85-90 days.



### MERLIN Beet

Merlin is our sweetest beet, noted for its exceptional flavor and high brix (sugar content) of 12-15%. It offers uniform, round-shaped, deep burgundy-red roots with very little interior zoning. Erect, glossy, dark green tops also display high eating quality. Merlin has become a favorite across many segments - from home gardeners to farm market growers to the prepared food market. Matures in 85-90 days. *Organic and non-organic seeds available.*





**RED ACE** Beet

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. Widely adapted, uniform and easy to grow. Fresh market and baby leaf with high sugar content. Matures in 80 - 85 days. *Organic and non-organic seeds available.*



**ROBIN** Beet

Robin is the perfect baby beet. Robin forms a uniform globe shape root at an early stage in development. It is a very versatile variety that has wonderful flavor for fresh eating and works well for pickling. Robin has nice dark red interior and exterior and bright green, short stemmed, upright leaves that can be harvested at the baby stage or harvested with the roots. Expect root maturity to 2 inches in 60-plus days, depending on desired root size.



**TOUCHSTONE GOLD** Beet

Touchstone Gold offers a root with a vibrant orange-red exterior and rich gold interior color. Combined with its striking green leaf/gold petiole contrast and unique flavor, this beet is sure to catch your eye on the dinner plate. Very sweet, with a milder taste compared to red beets. See our website for details on its superior sensory evaluation results from 3rd-party testing. Matures in 85-90 days. IR: Cb. *Organic and non-organic seeds available.*



**VULTURE** Beet

Vulture is a half-long cylindrical shape beet that is easy to slice and offers higher yields of uniform slices. This variety has dark red, smooth roots with little to no zoning. Vulture has small crowns and small taproots, as well as superior flavor in comparison to other cylindrical beet varieties. Matures in 85-90 days. IR: Cb.



**BULL'S BLOOD**  
Beet



**CHIOGGIA GUARDSMARK**  
Beet

*Organic and non-organic seeds available.*



**DETROIT SUPREME**  
Beet



**FRESH START**  
Beet Greens

Variety	Days to Maturity from Direct Seed	Root Shape	Root Color	Leaf Tops - Color/Height	Bolt Resistance	Uses & Remarks
<b>HYBRID:</b>						
Azuma F1	80-85 mature	Globe	Deep red	Green / Medium	Very high	Heat tolerant and performs best under warmer growing conditions. Smooth-skinned and deep red.
Borealis F1	85-90	Globe	Deep red	Green with red petioles / Tall	High	Good internal root quality with high brix. Excellent performance across climates and soil types. IR: BNYVV* and IR: Rs**.
Falcon F1	80-85 mature	Blocky	Deep red	Green / Tall	Very high	Heat tolerant - perfect for warmer growing conditions.
Fresh Pak F1	23-26	-	-	Dark green with red petioles and veination	-	Moderate growing variety with dark green leaves and deep red veination. Perfect for baby leaf and spring mix growers.
Fresh Start F1	28-32 baby leaf	-	-	Dark green with dark red petioles	-	A fast growing baby leaf variety with high resistance to downy mildew (1), Dark green leaves with deep red petioles ideal for spring mixes. HR: Pfb
Kestrel F1	23-26 baby leaf, 85-90 mature	Blocky globe	Red	Green / Medium-tall	Very high	Forms large roots for suitability in all segments. Early, with hybrid vigor, uniformity and yield.
Merlin F1	23-26 baby leaf, 85-90 mature	Globe	Red	Green / Medium	Very high	Very high sugar content (12-15% brix); long storage ability. Excellent for fresh and specialty markets. <i>Organic and non-organic seeds available.</i>
Red Ace F1	20-23 baby leaf, 80-85 mature	Top-shaped	Deep red	Green / Medium	Very high	Widely adapted, uniform and easy to grow. An industry standard. <i>Organic and non-organic seeds available.</i>
Robin F1	60+ depending on harvested root size	Globe	Deep red	Green / Short	Very high	Perfect for whole baby beet production. Processing and fresh market use.
Vulture F1	23-26 baby leaf, 85-90 mature	Blocky cylindrical	Deep red	Dark green / Medium	Very high	Half-long cylindrical beet with good flavor and excellent yields. Works well for uniform slicing and pickling. IR: Cb
<b>OPEN POLLINATED:</b>						
Bull's Blood	28-32 baby leaf, 60-65 mature	Top-shaped	Bright red	Dark red / Medium-tall	Moderate	Heirloom variety, dark red foliage is grown for leafy green mixes. <i>Organic and non-organic seeds available.</i>
Chioggia Guardsmark	85-90 mature	Flat Egyptian	Purple & white zoning	Light green / Medium	High	A popular and beautiful heirloom for the home gardener and innovative fresh-market grower. <i>Organic and non-organic seeds available.</i>
Detroit Supreme	85-90 mature	Globe	Deep red	Green / Tall	High	Improved strain of Detroit Dark Red that forms large roots, deeper color, smoother skin, more refined tap root and crown attachment.
Early Wonder Tall Top	25-28 baby leaf, 90-95 mature	Top-shaped	Bright red	Green / Tall	Very high	A popular home garden variety for its sweet roots and flavorful tops.
Touchstone Gold	85-90 mature	Globe	Interior: Golden yellow Exterior: Orange-red	Light green / Medium	Very high	The top choice for home, fresh and specialty markets. Good choice when a mild-tasting beet is preferred. See our website for its superior sensory evaluation results from 3rd-party test panel. IR: Cb. <i>Organic and non-organic seeds available.</i>

Disease Terminology: HR = High Resistance; IR = Intermediate Resistance.

Disease Code: BNYVV\* - Rhizomania, Cb - Cercospora leaf spot, Pfb - Downy mildew, Rs - Rhizoctonia.



**NEW**  
VARIETY



**PURPLE MAGIC Broccoli**



Introducing our AAS winner Purple Magic, the first purple stem, purple headed broccoli in the world! The large, dome-shaped heads weigh in at about 1 pound each. Purple Magic is very high in anthocyanin (a plant-based chemical called a flavonoid) and nutritious. Anthocyanin is thought to be useful in preventing cancer and inflammation. The plants grow well in all regions of the US and mature about 100 days from seeding.



**AVENGER Broccoli**

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. Days to maturity from seeding: about 102.



**CENTENNIAL Broccoli**

An exciting addition to the Sakata broccoli line, Centennial plants are early and medium-sized with large, smooth, small-beaded heads. The stems are long with minimal side shoots. Centennial is widely adapted, performing well in all broccoli growing areas, and can be grown year-round in the cool coastal growing regions. The beautiful heads store well and can be used fresh as whole heads, cut into florets, and frozen. Days to maturity from transplant: 83-86.



**DESTINY Broccoli**

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.



**DIAMANTE Broccoli**

Diamante shines, producing large crowns on large, sturdy plants. Expect high yields of semi-domed, small-beaded, blue-green colored heads. This variety prefers warm to warm and warm to cool growing conditions. The heads hold their color well after harvest and are suitable for fresh use and freezing.



**DIPLOMAT Broccoli**

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.



**DYNASTY Broccoli**

Dynasty is a mid-season, widely adapted broccoli variety with smaller, lower leaf attachments to aid with ease of harvest. Dynasty has medium-sized plants with smooth, dome-shaped, medium green heads that are anthocyanin free. High yielding plants matured very uniformly in all our trials. Plants work well in the fall or spring and heads can be used whole, in florets, or frozen. Days to maturity from transplant: 86-90.



**EMERALD CROWN Broccoli**

Emerald Crown is an early to mid-maturing, very uniform, heavy-headed, domed variety with small beads on a small framed plant. Suggested planting in spring/fall. Resists purpling. Days to maturity from seeding: about 93.





### EMPIRE Broccoli

Empire produces beautiful, high-domed, smooth heads with great weight and deep emerald color. The large, tightly packed heads are best used as whole crowns. The compact plants are sturdy and leafy. Empire shows very strong blind plant tolerance and works best in the spring, fall and mild over-winter seasons. Days to maturity from transplant: 90-95.



### FORTRESS Broccoli

Fortress is a mid-late maturing, multi-use broccoli with a clean stem, and a high head, which makes for an easier harvest. Pinrot (IR) resistant plants and anthocyanin free heads make this a fine choice for bunch and crown cut uses. Days to maturity from seeding: about 105.



### GODZILLA Broccoli

Godzilla forms very heavy, firm, small-beaded heads that sit in mid-high position on the plant for easy harvest. Leaf attachments are small and lower on the stem, allowing for quick trimming and attractive, dense, superbly edible stems. Godzilla is ideal for harvesting after Gypsy and Imperial are finished. Days to maturity from seeding: about 100.



### GREEN MAGIC Broccoli

One of our most widely adapted, multi-use varieties. A summer into fall type which produces semi-domed, tight heads with medium-small bead size and a manageable plant habit. Days to maturity from seeding: about 90.



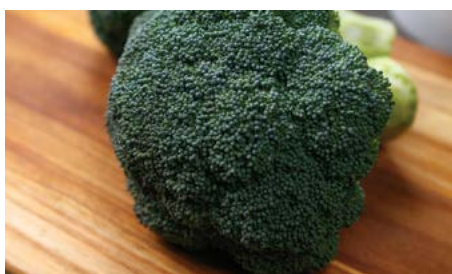
### GYPSY Broccoli

Gypsy performs well under moderately warm conditions. A favorite of organic growers, Gypsy has a strong root system and intermediate downy mildew resistance (IR: Cb). Days to maturity from seeding: about 90.



### IMPERIAL Broccoli

One of our most widely adapted varieties, Imperial is mid-maturing and heat tolerant, ideal for long-day conditions. It is multi-use, performing well for fresh eating and freezing. Keeps well after harvest. Days to maturity from seeding: about 105.



### KINGDOM Broccoli

Kingdom delivers beautiful broccoli crowns in just 70 days from transplant. The plants are medium-sized with nice, low sitting, dome-shaped heads suitable for whole crown or floret use. Kingdom offers good crown quality for the early-maturity slot and has shown excellent performance in the Northeast summer/fall harvest slots as well as early winter harvesting in the Desert Southwest. Days to maturity from transplant: 70.



### MARATHON Broccoli

An industry standard in broccoli, Marathon is widely adaptable. This variety has yielded outstanding results for fresh market and is a heavy yielder in the early and late season. Marathon has a high dome, small bead and heavy head. Days to maturity from seeding: about 97.



### MARATHON ELITE Broccoli

Marathon Elite is widely adaptable. With a high dome, Marathon Elite has small beads a heavy head and is blue green in color. 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. Days to maturity from seeding: about 97.

Variety	Days to Maturity Direct Seed*	Plant Height	Head Color	Head Characteristics	Head Size	Uses & Remarks
Avenger F1	102	Tall	Blue-green	Domed, dense	Extra-small	High percentage of crown cuts, very attractive head and excellent holding ability.
Centennial F1	97-100	Medium	Medium green	Domed, dense, smooth	Small	A heavy-headed, multi-use variety. Small beaded with heavy heads.
Destiny F1	89	Compact	Medium green	Domed, smooth	Medium-small	Dwarf plants produce broccoli with a smooth dome and round shape. Medium-small beaded with good heat tolerance.
Diamonte F1	105	Tall	Blue-green	Domed, uniform	Small	Excellent for crown cut and processing. Exceptional post-harvest color retention.
Diplomat F1	102	Tall	Blue-green	Semi-domed	Small	Excellent for the Northeast, Canada, and the Pacific Northwest. Suitable for bunch and crown market.
Dynasty F1	100	Medium	Medium green	Domed	Small	Easy and uniform harvest. Medium plant size with well-domed heads.
Emerald Crown F1	93	Compact	Blue-green	Semi-domed	Small	Very uniform, excellent quality heads on small-framed plants. Warm to cool growing season.
Empire F1	100	Medium	Blue-green	High-domed, smooth	Small	Primarily for crown cut/short trim markets.
Endurance F1	102	Medium	Medium green	Domed, dense	Small	High-yielding plants produce tight, domed heads with refined beads.
Fortress F1	105	Erect	Green	Large, held high	Small	Multi-use broccoli with a clean stem for easier harvesting. Great for bunch and crown markets.
Godzilla F1	100	Tall	Green	Dense, heavy, high	Extra-small	Heavy head sits high for easy harvest; thick, edible stems are quick to trim of few leaves.
Green Gold F1	100	Medium	Medium green	Domed, dense	Small	Excellent harvest uniformity. Ideal in Southwest locations.
Green Magic F1	90	Medium	Blue-green	Semi-domed	Medium-small	Widely adaptable variety for fall fresh market growing.
Gypsy F1	90	Tall	Medium green	Domed, smooth	Medium-small	Good for organic production due to strong root system and disease resistance. Performs well under moderately warm conditions. Intermediate resistance to downy mildew.
Imperial F1	105	Tall	Dark green	Semi-domed	Small	Performs well in long days. Excellent holding ability after harvest.
Kingdom F1	80	Medium	Green	Domed	Small	Early, multi-use variety. Very adaptable.
Marathon F1	97	Medium tall	Blue-green	Domed, dense	Small	Uniform, and sizes up well in cold, overwinter production. Multi-use.
Marathon Elite F1	97	Medium tall	Blue-green	Domed, dense	Small	Widely adaptable variety for fresh market, processing, and crown cut market.
Maverick F1	95	Tall	Medium green	Domed, dense	Small	Multi-use variety. Vigorous plant.
Patron F1	94	Medium	Dark blue-green	Domed, high	Small	Good for summer to fall harvest. Tolerant to brown bead/hollow core.
Purple Magic F1	100	Medium	Purple-green	Domed	Small	Unique coloration to stems, leaves, and heads. Suitable for crown and processing.

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





### HEADSTART Cabbage

First introduced in the U.S. in 1967, Headstart is an example of Sakata's 100+ years of venerable vegetable breeding. The bright green, round/slightly flattened heads are compact and heavy. The small- to medium-sized Copenhagen-Market-type heads are best used fresh for slaw, sauerkraut, or slow cooking. Headstart is quick to mature at 60-70 days from transplant.

### OSCEOLA Cabbage

Osceola is an extra-large green cabbage for fresh use or processing. The tightly packed leaves are shiny and bright green. This cabbage has a vigorous plant frame, good field holding, mid-late maturity, and intermediate resistance to Black rot. HR: Foc: 1; IR: Xcc. Matures in about 75 days from transplant.

### SAVOY KING Cabbage

An outstanding, well adapted AAS Winner that performs well in a wide variety of conditions. Under mild climates, it may be sown in spring, summer and fall. The heads are large and slightly flat with a short core and dark green, crinkled leaves. A heavy yielder and good choice for eating raw or cooked. T: TpB. Matures in about 80 days from transplant.



### STONEHEAD Cabbage

Stonehead is an early, medium-headed variety with Tipburn tolerance. It has a compact plant with gray-green head color. Stonehead is an AAS Award Winner noted for its wide adaptability and excellent flavor and texture. T: TpB. Matures in about 60 days from transplant.

### STORAGE #4 Cabbage

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. HR: Foc:1. Matures 110-120 days from transplant.

### SUPERSTAR Cabbage

SuperStar cabbage offers excellent quality, flavor, texture, and harvest flexibility. The solid, green, medium to large round heads are protected by a strong-framed plant and multiple wrapper leaves. SuperStar can be used fresh or for processing and has excellent holding ability in the field and after harvest. This great tasting cabbage is Fusarium yellows race 1 resistant and black rot tolerant. It matures in about 80 days.



**BLUE VANTAGE**  
Cabbage



**CHARMANT**  
Cabbage



**RED JEWEL**  
Cabbage



**XTREME VANTAGE**  
Cabbage

Variety	Relative Maturity / Days to Maturity from Transplant	Head Color	Head Size	Disease Resistance/ Tolerance	Uses & Remarks
Blue Vantage F1	Mid / 80	Blue-green	Medium-large	HR: Foc: 1 T: TpB	Wide adaptability, good for direct sowing.
Charmant F1	Early / 65	Green	Medium	HR: Foc: 1 T: TpB	Wide adaptability, excellent holding ability. Small-core heads do not point in cooler conditions.
Emblem F1	Mid-late / 85	Gray-green	Medium-large	HR: Foc: 1	A fresh market variety with good internal quality; prefers warm weather.
Fast Vantage F1	Very early / 50	Green	Medium	-	Extra-early maturity; good heat tolerance; sweet taste.
Grand Vantage F1	Mid-late / 85	Green	Medium-large	HR: Foc: 1	Solid, dense head, tight wrapper and good holding ability. Wide adaptability.
Greenboy F1	Mid-late / 80-85	Green	Medium	HR: Foc: 1	Wide adaptability. Heat and rain tolerant.
Headstart F1	Early / 65-70	Bright green	Medium-small	-	A home gardener favorite Copenhagen-Market type. Dense, heavy heads are slightly flattened and multi-use.
Osceola F1	Mid-late / 75	Blue-green	Large	HR: Foc:1 // IR: Xcc	Serves dual purpose for process/fresh market. Good field holding ability.
Red Jewel F1	Mid / 75	Garnet red	Medium-large	-	High yielding with early maturity. Heads have deep red color and short core.
Royal Vantage F1	Mid-late / 90	Blue-green	Medium-large	HR: Foc: 1	Grows well in cool weather or poor soil conditions.
Savoy King F1	Mid / 80	Green	Medium-large	T: TpB	A semi-flat head with attractive savoy leaves. A widely adaptable variety for fresh market. AAS Winner.
Stonehead F1	Early / 60	Gray-green	Medium	T: TpB	Early and widely adapted; stores well. Compact plant. Flavor and texture are excellent. AAS Winner.
Storage #4 F1	Late / 110-120	Dark green	Medium-large	HR: Foc: 1	Wide adaptability, Excellent holding ability. Works well in rainy and muddy areas.
SuperStar F1	Mid / 80	Green	Medium-large	HR: Foc:1 T: Xcc	An all-around winner in flavor, texture, and multi-use adaptability. Good wrapper leaves; holds well.
Supreme Vantage F1	Mid-early / 67	Green	Medium-large	HR: Foc: 1	Good holding ability.
Xtreme Vantage F1	Mid / 75	Green	Medium	HR: Foc: 1 T: Xcc	Very good uniformity in the field, good disease package showing strong resistance against Black rot and a strong tolerance to Tipburn.

Disease terminology: HR = High Resistance, T = Tolerance. Disease code: Foc - Fusarium yellows, TpB - Tipburn, Xcc - Black rot.

# Did you know?

**Summer/Round** types are thicker and harder; best used for coleslaw, salads, and cooking (like Headstart & Stonehead).

**Summer/Savoy** are crinkled and light; best used for stir-fries, steamed or in soups (like Savoy King).

**Winter/Storage** types are thicker and firmer; best used for coleslaw, soups and stews. Storage types can be kept in the refrigerator or root cellar for long periods of time and eaten during the winter months (like Storage #4).





### TWISTER Cauliflower

Twister stands out with quality and beauty! Heads are tight, heavy, and bright white with a fabulous spiraling internal wrap. Twister is mid-maturing with very uniform harvests and flaunts near perfect appearance when grown in slot (spring or fall in most regions). Twister is well adapted to most areas and prefers heavy soil. Matures 75-80 days from transplant.



### PUREZA Cauliflower

Pureza, a Spanish word for "pure," perfectly describes this bright white, smooth, domed-shaped cauliflower with beautifully wrapping leaves. The plants are sturdy and upright, very uniform, mid/late maturing and vigorous. Pureza heads are heavy with dense curds. Days to maturity from transplant: 76.

Variety	Days to Maturity from Transplant*	Plant Type	Head Type/Size	Uses & Remarks
Pureza F1	76	Large	Large / Dense	Produces a heavy, dense curd with a good wrap. Vigorous plant.
Twister F1	75-80	Medium / upright	Tight, heavy / Medium-large	Spiraling wrapper leaves for extra protection and extra-white heads. Likes heavy soils.

\* Days to maturity calculated from fall harvest data (Post transplant).

### YODA Chinese Cabbage

Yoda is a Napa Cabbage with a large, solid, barrel-shaped head and dark green outer leaves. The tightly packed interior leaves are white and brilliant yellow. The large, clubroot resistant plants grow quickly. Best planted in the early summer or fall. Matures in 65-72 days from direct seed.





**CHINA COAST**  
Chinese Cabbage



**CHINA EXPRESS**  
Chinese Cabbage



**CHINA GOLD**  
Chinese Cabbage



**CHINA KING**  
Chinese Cabbage



**CHINA STAR**  
Chinese Cabbage



**YUKI**  
Chinese Cabbage

Variety	Plant Type	Relative Maturity / Days to Maturity from Direct Seed	Exterior / Interior Head Color	Head Size	Bolt Resistance	Disease Resistance / Tolerance	Uses & Remarks
China Coast F1	Baby Napa	Mid / 70	Dark green / Yellow	Large	Susceptible	IR: Pb	Attractive, heavy heads; widely adapted.
China Express F1	Napa / Heading	Early / 62	Green / Pale yellow	Medium	High	T: TpB	Broad, barrel-shaped heads are well wrapped and uniform. Widely adapted and early to mature.
China Gold F1	Napa / Heading	Mid-early / 65	Green / Yellow	Medium	Very high	IR: Pb T: TpB	Displays excellent color. Plants are compact. Tolerant to Tipburn and some club root races. Very slow bolting.
China King F1	Baby Napa	Mid-late / 75-80	Dark green / Yellow	Small	High	T: TbP	A miniature-type, these compact plants are suitable for close spacing, are bolt tolerant, and resistant to tipburn.
China Star F1	Napa / Heading	Mid / 70	Dark green / Yellow	Large	Moderate	T: BLS / TpB	Widely adapted. Good disease resistance.
Yoda F1	Napa / Heading	Mid-early / 65-72	Dark green / Yellow	Large	High	IR: VA: 1 / Pb	Large, solid, barrel-shaped head with a brilliant yellow interior.
Yuki F1	Napa / Heading	Mid / 67	Green / Yellow	Large	Moderate	IR: Pb T: BLS / TpB	China Express-type. Good uniformity and size. Excellent disease resistance.

Disease terminology: IR = Intermediate Resistance, T = Tolerance. Disease code: BLS - Black leaf speck, Pb - clubroot, TpB - Tipburn, VA - Verticillium wilt.





### TOP CHOP Collard

Bolt resistance and high yields make Top Chop a top choice for fresh market or processing. Top Chop is our slowest bolting hybrid variety, displaying great uniformity, upright habit, and large, wide leaves with a narrow rib for bountiful harvest. Top Chop regrows quickly after cutting, increasing yield over time. Works well in the overwinter slot or for spring plantings.



**FLASH**  
Collard



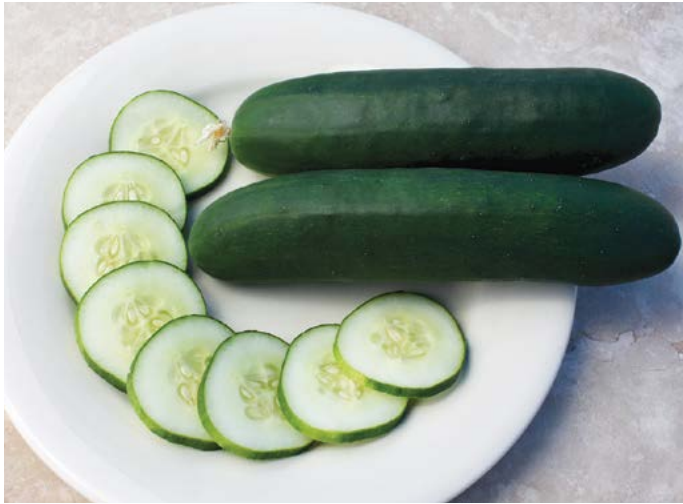
**TOP BUNCH 2.0**  
Collard



**VATES**  
Collard

Variety	Category	Days to Maturity from Direct Seed	Plant Type	Leaf Color / Type	Bolt Resistance	Uses & Remarks
Flash	Hybrid	75	Upright, open	Dark green / Smooth	Very high	Vates-type. Fast regrowth; good uniformity and multi-cut. Best for early spring.
Top Bunch 2.0	Hybrid	70	Tall, semi-erect	Blue-green / Slightly wavy, broad	Very high	Georgia-type. Vigorous, rapid regrowth.
Top Chop	Hybrid	74	Large, upright	Dark green	Very high	Very high bolt tolerance and extremely large leaves.
Vates	OP	75-80	Semi-upright	Medium green / Smooth to slightly savoyed	Moderate	Widely adapted; durable; high yield potential.





**SLICE MORE** Cucumber

Slice More is a burpless, 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. Shows high resistance to scab and intermediate resistance to cucumber mosaic virus, anthracnose races 1 & 3, downy mildew and powdery mildew.



**TASTY GREEN** Cucumber

A highly popular Japanese slicing-type 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 inches long and 1.5 inches in diameter, and has tender skin and a nice mild flavor. Matures early in about 60 days from seeding. Resistant to powdery mildew and intermediately resistant to downy mildew. *Organic and non-organic seeds available.*



**BLACK STALLION** Eggplant

Hybrid Black Stallion is a traditional black Italian type eggplant. It performs exceptionally well in the garden, producing abundant yields early and then continuously over a long period, even into cooler conditions. Uniform, 8-9" long by 4-5" wide fruits are blemish free, with a particularly high gloss skin that resists fading. The purple-black fruits have a creamy white interior with few seeds and tender texture. Upright, well-branched plants provide good cover for prevention of sunscald. Matures about 60-65 days from transplant.



**SHIKOU** Eggplant

Shikou is a hybrid Asian-type eggplant. The dark purple, glossy, elongated fruit measure 6-8 inches long by 1-1.5 inches wide, with a purple calyx (or stem), and tender, thin skin. Medium-sized plants are very attractive and productive, producing loads of lavender blooms followed by semi-spineless fruits that mature about 70-80 days from transplant. Shikou is a Japanese word meaning "Supreme." Fruits boast a bright white interior with few seeds and are easy to prepare - just slice and sauté or stir-fry. No peeling or salting required. Produces continuously all summer long, often until first frost. *Organic and non-organic seeds available.*





### SANTO Cilantro (Coriander)

A fast-growing, yet slow-bolting strain of this highly popular herb. A uniform selection with broad, highly-aromatic leaves that are sturdier than other strains. Multiple cuts can be made under long days. Use the leaves as the herb cilantro and harvest the seeds for the spice coriander. An industry standard variety. Monogerm seed available. *Organic and non-organic seeds available.*

### DARK GREEN ITALIAN Parsley

Our selection of this heirloom, flat-leaf parsley offers a broader leaf with more flavor than other varieties. The glossy, dark green, moderately cut leaves mature in 65-70 days and are well suited for both home garden and fresh market use. Parsley seed may develop an oily residue when stored over long periods. *Order for your current season when possible.*



### DUKAT 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. Vigorous plants eventually reach 30 to 40 inches tall and are topped with very large umbels. Suitable for summer culture as well as the typical spring and fall.



**FOREST GREEN**  
Parsley



**BOUQUET**  
Dill



**ITALIAN LARGE LEAF**  
Basil

Variety	Days to Maturity from Direct Seed	Leaf Characteristics	Growing Season	Uses & Remarks
Italian Large Leaf Basil	90	Medium-large, broad, glossy dark green	Summer	Good fragrance. Moderately slow to bolt. Uniform, broad leaves.
Santo Cilantro (Coriander)	60	Broad, celery-like, dark green	Spring & Fall	Fast-growing, slow-bolting strain, suitable for multiple harvests. Use leaves as Cilantro and seeds as Coriander. <i>Monogerm seed available. Organic and non-organic seed available.</i>
Bouquet Dill	60	Fine, medium green	Spring & Fall	An early maturing, strong plant with high aroma. Popular home garden and fresh market variety. Improvement of Mammoth strain.
Dukat Dill	70	Fine, medium green, strong plant	Spring, Summer & Fall	Produces high yields of foliage on tall plants. Distinct aroma.
Dark Green Italian Parsley	65-70	Flat, moderately cut, glossy dark green	Spring, Summer & Fall	High flavor. Broad, dark green leaves on erect plants.
Forest Green Parsley	70-75	Double-curved, finely cut dark green	Spring, Summer & Fall	Plants are erect and vigorous. Holds well in hot weather.





**BLUE RIDGE Kale**

Blue Ridge features dark, blue-green foliage with an attractive, full curl on all leaves. It offers a semi-tall plant type, mid-season maturity and an extended harvest of heavy yields. It is also slow to bolt or stretch and is widely adapted to all growing areas where cool season crops are planted. Also a successful baby leaf choice, producing heavy yields of blue-green lobed leaves quickly and with good regrowth. A nice addition to mixed containers of salad greens or as an ornamental edible.



**IMPROVED DWARF SIBERIAN Kale**

Improved Dwarf Siberian is a multipurpose variety that can be harvested for baby or mature leaves. At full size, it has a deep green, rippled leaf with an upright plant habit. Thick petioles allow for easy bunching with less plant damage. Baby leaves will stand upright and be thick, medium green, and smoother with a rounded oval shape. Vigorous plants are winter hardy and yield high at either stage.



**VATES BLUE CURLED SCOTCH Kale**

Vates Blue Curled Scotch is a finely curled blue-green kale that can be used for baby leaf or mature leaf markets. It has a tall upright plant habit with sturdy stems that result in easy bunching or baby leaf harvesting. Our highly uniform selection is suitable for ornamental use as well.

Variety	Category	Days to Maturity from Direct Seed	Leaf Characteristics	Uses & Remarks
Blue Ridge F1	Hybrid	25-28 baby leaf, 60 days mature	Blue-green leaves with full curl.	Widely adapted and slow bolting. Offers extended harvests.
Improved Dwarf Siberian	OP	25-28 baby leaf, 50-60 mature	Deep green with coarsely curled and rippled irregular edges.	Vigorous and winter hardy. Produces heavy yields.
Vates Blue Curled Scotch	OP	25-28 baby leaf, 50-60 mature	Blue-green and finely curled. Narrow leaflets with central stalk.	Highly uniform selection. Ornamental edible; garnish type.



**QUICKSTAR Kohlrabi**

Quickstar hybrid is an exceptionally early, slow-bolting kohlrabi with dark green, slightly broad leaves. Bulbs are flat-round and very smooth, with a beautiful pale green color. Plants are extremely uniform in size and maturity. Crisp texture and mild taste of the bulbs resembles water chestnuts. Tasty raw or cooked. Matures in about 35-40 days.



**SAVANNA Komatsuna**

Savanna is a cross between early heat-tolerant tendergreen and cold tolerant, dark green leafed tendergreen. This hybrid has better uniformity, faster growth and recovery than O.P. varieties for multiple cuts. Savanna is also slow to bolt. Ideal as a high yielding, tasty baby green as well.



**VARIETIES SUITABLE FOR BABY LEAF**

FOR LETTUCES THAT ARE SUITABLE FOR INDOOR GROWING, SEE PAGES 31-35 AND LOOK FOR VARIETIES WITH THIS ICON.



**ASTRO** Arugula



**BULL'S BLOOD** Beet



**EARLY WONDER TALL TOP** Beet



**FRESH PAK** Beet



**FRESH START** Beet



**KESTREL** Beet



**MERLIN** Beet



**RED ACE** Beet



**TOUCHSTONE GOLD** Beet



**VULTURE** Beet



**RED JEWEL** Cabbage



**FLASH** Collard



**TOP BUNCH 2.0** Collard



**SHUNKYO SEMI-LONG** Daikon Radish



**BLUE RIDGE** Kale



**IMPROVED DWARF SIBERIAN** Kale



**VATES BLUE CURLED SCOTCH** Kale





**SAVANNA**  
Komatsuna



**MIZ AMERICA**  
Mustard



**FENG QING CHOI**  
Pak Choi



**JOI CHOI** Pak Choi



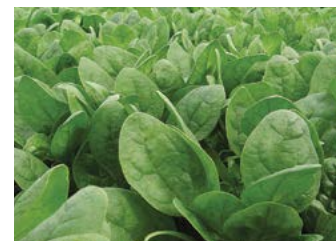
**LI REN CHOI** Pak Choi



**MEI QING CHOI**  
Pak Choi



**AFFLUENCE** Spinach



**C2-606** Spinach



**COUNTRYSIDE**  
Spinach



**DARKSIDE** Spinach



**INCOME** Spinach



**OCEANSIDE** Spinach



**REWARD** Spinach



**RIVERSIDE** Spinach



**SEASIDE** Spinach



**ELDORADO**  
Swiss Chard



**FIRE FRESH**  
Swiss Chard



**PEPPERMINT**  
Swiss Chard



**RHUBARB** Swiss Chard



**RUBY FRESH**  
Swiss Chard

# Leafy Greens for Controlled Environment Agriculture

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Variety	Crop	Indoor Baby Leaf DTM	Microgreen DTM	Leaf / Stem color	Leaf Characteristics	Key Retail Attributes	Key Grower Attributes / Disease Resistance
<b>Astro</b>	Arugula	25-28	12-15	Medium green / pale greenish-white	Strap shape; slightly lobed & cut	Nutty, mild peppery flavor	Early and heat tolerant
<b>Bull's Blood</b>	Beet	28-32	16-19	Both dark purple-red	Elongated oval; ruffled edges	Adds color; mild earthy flavor	Upright habit and slow to bolt
<b>Early Wonder Tall Top</b>	Beet	25-28	16-19	Bright green / rosy red	Elongated oval; red veins	Milder flavor, holds well	Upright habit; early / mid maturity
<b>Fresh Pak F1</b>	Beet	23-26	-	Dark green / very dark red	Oval; defined red veins	Bold stem / vein color	HR: Pfb // IR: Cb
<b>Fresh Start F1</b>	Beet	23-26	-	Dark green / medium-dark red	Oval; defined red veins	Bold stem / vein color	HR: Pfb, early
<b>Kestrel F1</b>	Beet	23-26	-	Deep green / very dark red	Rounded wedge; red veins	Bold stem / vein color	Early and uniform
<b>Merlin F1</b>	Beet	23-26	-	Dark green / deep burgundy	Oval; slightly ruffled; red veins	Sweet flavor, refined look	Sturdy stems, upright habit
<b>Red Ace F1</b>	Beet	20-23	13-16	Bright green / rosy red	Oval	Good color, holds well	Sturdy stems, very uniform
<b>Touchstone Gold</b>	Beet	27-30	19-23	Bright green / green to pale yellow	Elongated oval; flat, smooth	Adds golden yellow color to mixes	IR: Cb, easy to grow
<b>Vulture F1</b>	Beet	23-26	-	Dark green / very deep burgundy	Elongated oval; burgundy veins	Very deep stem / vein color	IR: Cb, uniform and dependable
<b>Red Jewel F1</b>	Cabbage	28-31	-	Dusty blue-green / deep purple	Elongated oval; flat	Adds bright color, loft	Thick leaf; sturdy stems
<b>Flash F1</b>	Collard	28-31	-	Blue-green / pale greenish-white	Rounded oval; slightly wavy; waxy	Adds weight and mild kale flavor	Withstands wilting
<b>Top Bunch 2.0 F1</b>	Collard	28-31	-	Medium gray-green / greenish-white	Rounded to oval; wavy edges	Adds weight and mild kale flavor	Early with fast regrowth
<b>Shunkyo Semi-Long</b>	Daikon Radish	28-31	13-16	Medium matte green / rose tinged	Baby leaf: spatula; Microgreen: spear	Unique stem color, tangy flavor	Easy to grow
<b>Basil Italian Large Leaf</b>	Herb	-	16-19	Both bright deep green	Shiny; cupped	Avoids bruising from chopping	Strong stem.
<b>Cilantro (Coriander) Santo</b>	Herb	-	18-22	Both bright chartreuse green	Intricately cut	Brighter, milder cilantro flavor	Slower to stretch

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



Variety	Crop	Indoor Baby Leaf DTM	Microgreen DTM	Leaf / Stem color	Leaf Characteristics	Key Retail Attributes	Key Grower Attributes / Disease Resistance
<b>Dill Dukat</b>	Herb	-	18-22	Both apple green	Delicate; feathery	Delicate, mild dill flavor	Withstands warmer temperatures
<b>Parsley Dark Green Italian</b>	Herb	-	26-29	Both medium-dark green	Intricately lobed	High oil concentration	Larger leaf surface
<b>Blue Ridge F1</b>	Kale	25-28	-	Dusty blue-green / bright green	Deeply lobed; folds at stem base	Unique color, adds loft	Slow to stretch, strong regrowth
<b>Improved Dwarf Siberian</b>	Kale	25-28	14-17	Medium green / light green	Round; rippled edges; thick	Unique texture, adds loft	Upright habit, thick leaf
<b>Vates Blue Curled Scotch</b>	Kale	25-28	12-15	Deep bluish-green / pale green-ish-white	Deeply cut; folds at stem base	Unique texture, adds loft	Uniform selection, sturdy stems
<b>Savanna F1</b>	Komatsuna	29-32	14-17	Bright green / light green	Rounded oval	High loft and bright color	Heat and cold tolerant, fast
<b>Miz America F1</b>	Mustard	25-28	14-17	Both deep reddish-purple	Intricately lobed; thick	Bold color, milder flavor	Very uniform, thick leaf
<b>Feng Qing Choi F1</b>	Pak Choi	21-24	-	Medium green / pale green	Rounded oval	Adds loft and weight, holds well	Very uniform, thick leaf
<b>Joi Choi F1</b>	Pak Choi	25-28	13-16	Dark green / white	Rounded oval; thick	Bright leaf & stem color	Superior uniformity, fast grower
<b>Li Ren Choi F1</b>	Pak Choi	21-24	-	Matte green / pale greenish-white	Oval with slightly embedded stem	High flavor, smaller leaves	Stays small, upright habit
<b>Mei Qing Choi F1</b>	Pak Choi	21-24	-	Medium-dark green / greenish-white	Smooth; spoon-shaped	High flavor, tender	Heat and cold tolerant
<b>Little Snap Pea Crunch</b>	Pea	-	11-14	Medium bright green	Rounded whorl	Adds unique visual interest	Very fast grower
<b>Little Snap Pea Petite</b>	Pea	-	10	Dark green	Small, rounded, long internodes	Crisp texture and bright fresh flavor	Very fast grower
<b>Little Snow Pea Purple</b>	Pea	-	10	Medium green	Medium size, rounded, short internodes	Pleasant texture and mild flavor	Upright habit, easy to harvest and stack
<b>Little Snow Pea White</b>	Pea	-	10	Medium green	Medium internodes, long tendrils, heart-shaped	Pleasant texture and mild flavor	Attractive with sturdy stems

# L Leafy Greens for Controlled Environment Agriculture

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Variety	Crop	Indoor Baby Leaf DTM	Microgreen DTM	Leaf / Stem color	Leaf Characteristics	Key Retail Attributes	Key Grower Attributes / Disease Resistance
<b>Affluence F1</b>	Spinach	21-26	-	Dark green / bright green	Round-oval; smooth	Dark color, smoother leaf, can be grown for Organic	HR: Pfs: 1-19
<b>C2-606 F1</b>	Spinach	20-23	-	Dark green / bright green	Spade-shaped; veined	Holds well	HR: Pfs: 1-9, 11-16
<b>Countryside F1</b>	Spinach	20-25	-	Very dark green / bright green	Round-oval; veined; thick	Smooth, very dark leaf	HR: Pfs: 1-12, 14-16
<b>Darkside F1</b>	Spinach	20-25	-	Very dark green / dark green	Round-oval; smooth	Sturdy thick, very dark leaves	HR: Pfs: 1-12, 14-16, 19 \\ IR: Fos
<b>Income F1</b>	Spinach	19-25	-	Medium dark green / bright green	Round-oval; erect, smooth	Smooth, bright; can be grown for Organic	HR: Pfs: 1-19; performs in cooler conditions
<b>Oceanside F1</b>	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
<b>Reward F1</b>	Spinach	19-25	-	Dark green / bright green	Round-oval; smooth	Can be grown for Organic	HR: Pfs: 1-19
<b>Riverside F1</b>	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
<b>Seaside F1</b>	Spinach	21-26	-	Very dark green / rich bright green	Spade-shaped; veined; thick	Smooth, very dark leaf	HR: Pfs: 1-11, 15-16 // IR: Pfs:12, 14
<b>Celebration</b>	Swiss Chard	-	16-19	Green / white, red, yellow, pink, peach	Highly uniform	Multi-colored stems, crunchy, mild	Uniform size & growth rate
<b>Eldorado</b>	Swiss Chard	25-28	16-19	Dark green / bright yellow	Spatula shape; slightly wavy	Glossy, adds yellow color	Uniform, slow to bolt
<b>Fire Fresh F1</b>	Swiss Chard	23-26	-	Medium-dark green / bold red	Ovate; defined red veins	Adds texture and color	HR: Cb // IR: Pfs
<b>Peppermint</b>	Swiss Chard	-	14-17	Bright glossy green / pink & white	Ovate; slightly savoy, glossy	Glossy, adds bright, unique color	Strong upright habit
<b>Rhubarb</b>	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
<b>Ruby Fresh F1</b>	Swiss Chard	21-24	-	Medium-dark green / scarlet red	Ovate; red veins	Bold stem / vein color	Moderate growth rate

Disease Terminology: HR = High Resistance; IR = Intermediate Resistance.  
 Disease Code: Cb - Cercospora Leaf spot, Fos - Fusarium wilt, Pfs (or Pfb) - Downy mildew.



## VARIETIES SUITABLE FOR MICROGREENS



**ASTRO** Arugula



**BULL'S BLOOD** Beet



**EARLY WONDER  
TALL TOP** Beet



**RED ACE** Beet



**TOUCHSTONE  
GOLD** Beet



**SHUNKYO SEMI-  
LONG** Daikon Radish



**BASIL ITALIAN  
LARGE LEAF** Herb



**CILANTRO  
(CORIANDER) SANTO**  
Herb



**DILL DUKAT** Herb



**PARSLEY DARK  
GREEN ITALIAN** Herb



**IMPROVED DWARF  
SIBERIAN** Kale



**VATES BLUE CURLED  
SCOTCH** Kale



**SAVANNA** Komatsuna



**MIZ AMERICA**  
Mustard



**JOI CHOI** Pak Choi



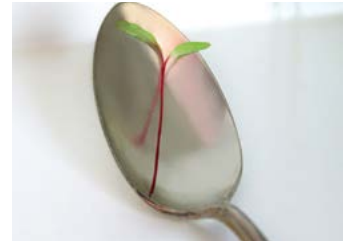
**CELEBRATION**  
Swiss Chard



**ELDORADO**  
Swiss Chard



**PEPPERMINT**  
Swiss Chard



**RHUBARB** Swiss Chard

**PEA SHOOTS**



**LITTLE SNOWPEA PURPLE**  
Pea



**LITTLE SNOWPEA WHITE**  
Pea



**LITTLE SNAPPEA CRUNCH**  
Pea



**LITTLE SNAPPEA PETITE**  
Pea

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!







**7436 Romaine**

7436 romaine stood out like an emerald jewel in our trials. The heads are compact and very solid with nice hearts and deep green leaves. 7436 shows good bolt tolerance and works well for fall plantings. For the cutest heads, try closer planting or give the heads room to grow large. Mid-early maturity.



**9017 Loose Leaf**

Green tango-type for whole head and baby leaf lettuce. The wide, frilly, cut-edge leaves are bright emerald green and grow on a very open plant. Harvest at baby stage or allow to mature to large, voluminous heads. Baby leaves add loft and interest to salad mixes.



**9208 Loose Leaf**

9208 is a full dark red lolita rosa-type with downy mildew tolerance. The heads are full and frilly with deep red color throughout and a narrow base. Baby leaves are clear, dark red from frilly edge to base, have a very small, pale rib and a curved shape that adds loft.



**9409 Romaine**

9409's very unique 'rose madder' color is soft and bold at the same time. Baby leaves are slightly ruffled with a serrated edge and fade to a pale green base. 9409 holds color from base to tip at whole head stage supplying the maximum amount of beautiful color to salads. The upright plants grow quickly.



**9424 Romaine**

9424, a bright apple green romaine, is a good choice for salad mixes. The baby leaves are bright green with a light green rib. The quick maturing leaves are slightly cupped, and have mostly serrated edges, adding loft to salad mixes.





### CHAMISAL **Iceberg**

Chamisal is a grower favorite with excellent heading and uniform size and small core. Medium, bolt tolerant, heads display extremely smooth, flat ribs and boast tight wrapper leaves. Chamisal has shown strong field tolerance to downy mildew and is well suited to multiple growing locations. Chamisal does not show any light dormancy.



### CIELO VERDE **Green Leaf**

Cielo Verde is the industry standard for green leaf whole head production! Heads are large, upright, vigorous, and thick textured with good, bright green color. Cielo Verde is widely adapted to many growing conditions. Baby leaves have a frilly edge and a curvy shape and thick texture giving them substantial weight and loft.



### FRESH/HEART **Romaine**

If you love Caesar salad you will fall for Fresh/Heart! Fresh/Heart stands out in trials for its large, crispy, solid hearts. This romaine is large-sized, highly uniform, and bolt tolerant. Heads are medium-dark green, upright, and have shown strong performance against corky root. Baby leaves are uniform, bright green, oval and flat with a smooth edge.



### HEATMASTER **Iceberg**

Heatmaster helps extend the lettuce season into late spring or fall with its fast growing, heat and bolt tolerant growing habit. Light lime-green heads are medium to large and early maturing. Heatmaster prefers the warmer weather of spring or fall plantings. The plants are very uniform and show some resistance to Tipburn.



### HITCHHIKER **Green Leaf**

Hitchhiker is well-adapted to many growing conditions and suitable for baby leaf or whole head production. Heads are light green and upright with good texture. Baby leaves are flat and rounded with slightly serrated edges. Plants are mid-maturing and show some level of downy mildew tolerance.





**KREMLIN Red Leaf**

Kremlin red leaf is bold with deep green heads edged in bronze frills. Heads are full, upright and heavy for their size, and matched in maturity to many green leaf-types. Baby leaves are frilly and round, deep green with bronze 'freckles' and edges, adding loft and crunch to salad mixes. The center rib is narrow and flat. Shows strong field resistance to Tipburn and bolting.



**LUNA Iceberg**

Luna forms large heads on compact, bolt tolerant plants, making the most of the growing space. Luna is well adapted to early spring and fall plantings when the weather is mild. The plants show good Tipburn tolerance and mature quickly, providing harvest before summer heat or winter cold kicks in. Heads are medium green, with very shiny leaves and a short core.



**MERIDIAN Iceberg**

Meridian is a pioneer! This variety is first to market to show strong field tolerance to Fusarium races 1 to 3 and multiple Downy Mildew races. Meridian is well-adapted to warmer weather and bolt tolerant. Plant in mid-spring or late summer for best results. Medium to large-sized, green heads mature in about 69 days. Baby leaves are round with a slightly serrated edge and uniform bright green. HR:BL-EU: 16-24, 27-28, 30-32 HR: BL-US: 7, 8, IR: Fol: 1-3.



**MONTERRA Green Leaf**

Monterra, our most beautiful leaf lettuce, has a medium-large, dense head with deep green, shiny leaves. Plants are upright, sturdy, very full and have a high leaf count. This variety has shown strong tolerance to bolting, as well as Corky Root and LNSV. Baby leaves are deep green, round, and slightly cupped with a frilly edge and attractive rib/leaf contrast. Monterra's slightly tangy flavor is complimented by a pleasant crunch.



**OMEGA 42 Iceberg**

Omega 42 is an iceberg with large head size, dark green color, excellent texture, sweet flavor, and exceptional field holding ability. This variety offers unparalleled weight potential. Omega 42 is later maturing (3-5 days) and has shown good field tolerance to Big Vein.





### PORTOLA (2743) Iceberg

Portola provides good weight, extended field holding, and strong field tolerance to Big Vein. Full sized heads are dark green, heavy, and hold well before and after harvest. Portola makes size, even in cooler conditions, has great wrapper leaves and a nice open plant habit.



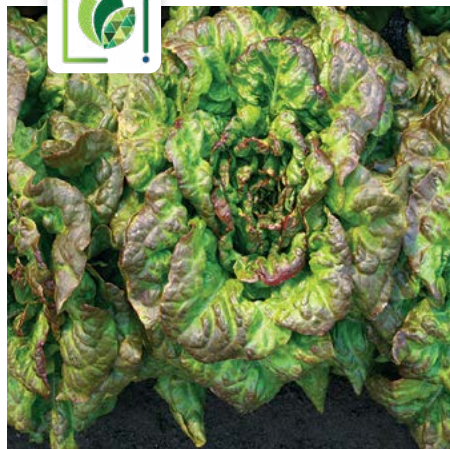
### RAIDER Iceberg

Raider is a grower favorite known for showing strong field tolerance to bolting and is well-suited for warm weather production. This beauty shows nice, dark green, solid, round heads with smooth ribs and large core diameter. At baby stage, leaves are smooth and deep green with slightly serrated edge.



### RED DRAGON Loose Leaf

Red Dragon oak leaf has burgundy red, deeply lobed leaves that are green at the base. An oak leaf type, it is suitable for lettuce mixes or whole head growing. Plants are very upright in habit with a moderate level of downy mildew tolerance and mid-season maturity. Baby leaves are very shiny and have smooth edges.



### RED TIDE Red Leaf

Red Tide is the industry standard for red leaf whole head production! This distinct variety displays deep bronze leaf margins with green midribs and base. It has a soft, butter texture and good pliability for an elevated eating experience. Red Tide has big open heads that have shown strong field tolerance to Tipburn and are adapted to most seasons with moderate bolt tolerance and quick maturity. Baby leaves are green with bronze edges, round, slightly cupped, and tapered with smooth edges. Eats well!



### REGENCY 3.0 Iceberg

Regency 3.0 is the best of the Regency series! This exciting variety has shown resistance to Downy Mildew and Corky Root. Regency 3.0 has small to medium, tightly wrapped heads and compact plants. Dark green, smooth leaved heads have good cover and wrap. At baby stage, leaves have a narrow, pale green rib, smooth, slightly serrated leaves. HR:BL-EU: 16, 18-26, 28, 32 BL-US: 7-9, IR: Rs





**RL 2211 Red Leaf**

Red leaf-type RL2211 is vigorous and thick textured with green centers and bronze leaf edges. RL 2211 has shown strong field tolerance to LNSV, Corky Root and Tipburn. Baby leaves are a reddish-bronze color, with green midrib and base, round with serrated edge and narrow rib. Pairs nicely with Monterra or Cielo Verde for salad mixes.



**SARATOGA Loose Leaf**

Our most beautiful red lettuce, Saratoga's burgundy red, frilly leaves narrow to a light green base. Lolla Rossa-type heads are very full with an upright plant habit and some downy mildew tolerance. At the baby stage, leaves are frilly, wide, and deep red at edge with a light green, elongated stem. Saratoga adds loft and shimmering color to salad mixes.



**TETON Lettuce**

Teton has the bright green color and crisp texture that you look for in a romaine. The large heads have straight ribs and are formed on compact, upright, plants. Under large outer leaves, Teton has tightly packed hearts with perfectly shaped, straight leaves. US patent applied for. Relative maturity from direct seed: Mid-Late. HR: BL-EU 21, 24, HR: TBSV (Tomato Bushy Stunt).



**VANGAURD PIC Romaine**

Vanguard (P.I.C.) Parris Island Cos is an improved strain of a favorite classic. Plants are large, fairly bolt tolerant, upright and adapted to most growing conditions. Vanguard P.I.C. has improved uniformity. The leaves are crisp, bright green with a very white rib, and have good flavor.



**WIZARD Loose Leaf**

Wizard delivers a magical combination of color and loft. The upright plants are bright emerald green, frilly, and have interesting, curved leaves. At the baby stage leaves are deeply cut and add loft and texture. Wizard is a tango-type with a very open plant and some downy mildew tolerance.



**ZORRO Green Leaf**

Zorro is a beautiful green leaf variety with a unique, glossy sheen and full, frilly leaves. Plants are early maturing and have shown strong field tolerance to bolting as well as to TBSV, Corky Root and Tipburn. Well adapted to spring and fall planting. Baby stage leaves have a frilly edge and taper from a wide leaf to a narrow, flat ribbed base. Baby leaves are very smooth and bright glossy green.





### BIT O' GOLD Melon

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.



### ATLANTIS Melon

Atlantis is a 4-5 pound Eastern muskmelon with a very sweet flavor and good texture. The exteriors of the round-oval shaped melons have a full, fine net with light sutures. It has excellent interior qualities, including firmness and consistently high sugar content for high consumer appeal.



### AVATAR Melon

This Eastern shipper-type boasts a firm, flavorful orange flesh with a small seed cavity. Produces early, heavy yields of extra-large oval fruits with a fine net. Turns from light green to yellow-tan when fully ripe. A popular farm market variety due to its high sugars and good eating quality.



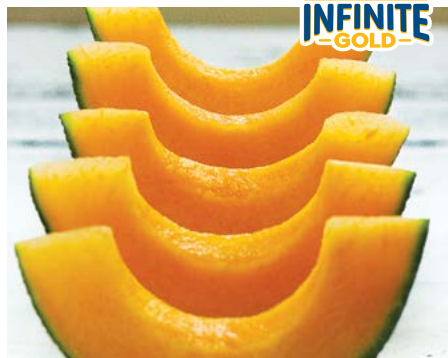
### DALI Melon

Dali tastes like summer, with sweet and juicy white flesh, the perfect texture and a gentle aroma. Smooth, bright yellow, 3-pound fruits have small cavities and hold well after harvest. Vigorous vines produce high yields in about 80 days.



### GRAND PRIX Melon

Grand Prix's intensely sweet flavor and creamy white, densely textured flesh tastes like a cross between a honeydew melon and pear. A Christmas (or Piel de Sapo) type, 5-pound fruits are dark emerald green with ivory striations. Vigorous, disease resistant plants produce fruits that hold well after harvest in about 82-87 days.



### INFINITE GOLD Melon

Infinite Gold has magnificent flavor and fruit quality- a favorite for taste, texture and holding ability. Feel free to go on vacation - Infinite Gold will welcome your return with abundant fruit, still fresh in the garden or from the fridge. Strong, disease-resistant vines produce uniform round-oval fruits in about 80 days.



ALANIZ GOLD  
Melon



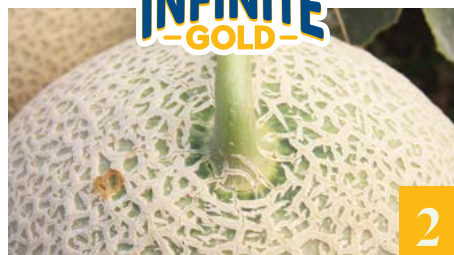
CITRINO  
Melon



Variety	Category	Relative Maturity	Fruit Shape / Size	Rind Characteristics	Interior Characteristics	Disease Resistance	Uses & Remarks
<b>CANARY:</b>							
Dali F1	Canary	Early-mid	Oval / Medium / 3 lb	Smooth, canary yellow	Creamy white, tight cavity	-	Excellent for farmers markets and home garden. Flesh is very sweet and aromatic. Vigorous, high-yielding plants.
<b>CANTALOUPE:</b>							
Alaniz Gold F1	Western Shipper	Mid	Round oval / 4-5 lbs	Full net	Orange, firm, medium-closed cavity	HR: Fom: 0-2 / Px: 1 \ IR: Px: 2	Excellent Brix, high yields, strong vine, uniform fruit size.
Atlantis F1	Eastern	Early	Round-oval / 4-5 lbs	Full fine net, shallow sutures	Dark orange flesh	HR: Fom: 0-2 / Px: 1 \ IR: Px: 2	Excellent field performance; strong, vigorous vines. Consistently high sugars.
Avatar F1	Eastern	Early	Oval / 6-9 lbs	Shallow, full net	Orange flesh, medium-open cavity	HR: Fom: 0-2 / Px: 1 \ IR: Px: 2	High sugars and great yields. Extra-large fruits. Farm market-type.
Bit O' Gold F1	Long Shelf Life Mini	Early-mid	Round / 1-2 lbs	Open net	Dark orange, firm, tight cavity	HR: Fom:0,2 / Px:1,2	Mini Harper-type cantaloupe with high flavor, aroma, and texture.
Infinite Gold F1	Long Shelf Life	Mid	Round-oval / 3-4 lbs	Full net	Orange flesh	HR: PRSV-W \ IR: Px: 1, 2	Infinite Gold beats the competition in flavor and quality according to our sensory analysis study.
<b>HONEYDEW:</b>							
Citrino F1	Honeydew	Mid	Round / 4-5 lbs	Smooth, creamy white	Orange flesh	HR: PRSV-W \ IR: Px: 1, 2	A rich orange-fleshed honeydew with superb, very sweet flavor. High-value choice for farm stands.
Super Nectar F1	Honeydew	Late	Round-oval / 4-6 lbs	Smooth, creamy white	Medium semi-closed cavity	HR: Fom: 2 \ IR: Px: 1, 2	Excellent shape and size uniformity. Good sugar content and firmness.
<b>PIEL DE SAPO:</b>							
Grand Prix F1	Piel de Sapo	Mid	Tapered oval / 5 lbs	Smooth, dark green with ivory striations	Firm, creamy white flesh	-	Very sweet flesh, perfect for farmers market and home garden. Stores well. Vigorous vines.

Disease terminology: HR = High Resistance, IR = Intermediate resistance.  
 Disease code: Fom - Fusarium wilt, PRSV - Papaya ring spot, Px - Powdery mildew.

INFINITE GOLD IDEAL HARVEST STAGES LSL



**FRUIT Qualities:**

- Fruit are ready for harvest for market
- Marketable brix and high firmness

**RIPENESS Indicators:**

- Net beginning to climb at the base of the stem
- Majority of stem is still visible

**FRUIT Qualities:**

- Very good stage for harvest for market and home gardens
- Good flavor, brix and firmness

**RIPENESS Indicators:**

- Net has climbed up the stem
- Light cracking around the base of the stem

**FRUIT Qualities:**

- Fruit can still be harvested, particularly in home gardens
- Good flavor and high brix, average firmness

**RIPENESS Indicators:**

- Obvious cracking around the stem
- Net has climbed and covers most of stem



### FLORIDA BROADLEAF Mustard

Raider is a grower favorite known for showing strong Florida Broadleaf has a smooth, medium green serrated leaf that is ideal for fresh markets. In addition to having an upright plant habit and good yield potential, it is widely adapted and very reliable.



### MIZ AMERICA Mustard

Miz America is a beautiful red mizuna with exceptionally uniform leaf color, shape and size. It was bred to produce high quality baby greens and still maintain its deep, dark red color on both sides of the leaf, even at a mature stage. Miz America has a pleasant, mild taste compared to typical mustards - not bitter or spicy. It is a favorite for multiple markets - indoor and outdoor baby leaf growers, farm market growers, home gardeners, and even ornamental growers.

Variety	Type	Relative Maturity / Days to Maturity from Direct Seed	Leaf Characteristics	Uses & Remarks
Florida Broadleaf	India Mustard	40-48 mature	Medium green, serrated, round	Widely adapted, reliable production. Large, erect plants have vigorous growth habit.
Miz America F1	Mizuna Mustard	20-25 baby leaf	Dark purplish-red, serrated spearhead	This variety could be used for both baby leaf and bunching.



### JAMBALAYA 2.0 Okra

Jambalaya 2.0 okra is an extra-early maturing variety that boasts a very compact plant with small leaves. It offers high yields of very uniform, shiny, dark green pods. An ideal choice for smaller home gardens and the bedding plant trade. Matures in about 50 days from transplant.

#### Did you know?

Okra, one of the most heat and drought tolerant vegetables in the world, is most closely related to cocoa, cotton and hibiscus. The immature pods are most commonly consumed, but the leaves are also edible. During a civil war-era coffee shortage in colonial America, okra seeds were roasted and ground to be used as a substitute.





### RED SAPPHIRE Onion

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



### SON570W Onion

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



### YOSEMITE Onion

Yosemite is an intermediate, or midday, onion that produces jumbo to colossal-sized bulbs. Globe-shaped, it has several outer layers of vibrant brown skin that provide good protection to the firm, white, single ring centers. Plants are grower friendly and show excellent uniformity and intermediate resistance to Pink Root.



**OVATION**  
Onion



**SPANISH MEDALLION**  
Onion



**WHITE GEM**  
Bunching Onion

Variety	Type	Relative Maturity / Days to Maturity from Direct Seed	Bulb Shape	Bulb Size	Skin Color	Disease Resistance	Uses & Remarks
Ovation F1	Late-Intermediate	Mid-late / 110-115	Globe	Jumbo to colossal	Brown	IR: Pt	High yields of large, firm bulbs with excellent skin retention. Very adaptable.
Red Sapphire F1	Short day	Mid-late / 180-195	Globe	Jumbo to large	Red	T: Pt	Strong plant growth and root system. It is an overwinter, short day onion.
SON570W F1	Intermediate	Mid-late / 105-110	Globe	Jumbo to large	White	HR: Pt	Replaces Mt. Whitney with better disease tolerance, adaptability, and yield.
Spanish Medallion F1	Late-Intermediate	Mid-late / 110-115	Globe	Jumbo to colossal	Brown	IR: Pt	High yields; excellent skin retention. Transitions into long-day Spanish types in some climates.
White Gem	Bunching	Mid / approx. 62	Pencil	Medium length	-	-	Excellent field standing ability. Better yield than O.P. types. A summer to fall harvest variety.
Yosemite F1	Intermediate	Mid-late / 105-110	Globe	Jumbo to colossal	Brown	IR: Pt	Heavy yielder with high bolt tolerance and percentage of single centers. Good uniformity and skin retention.

Disease terminology: HR = High Resistance; IR = Intermediate Resistance. T = Tolerance.  
Disease code: Pt - Pink root.



**SAKATA HOME GROWN IS PLEASED TO OFFER THE FOLLOWING CROPS ORGANICALLY:**

- ARUGULA- ASTRO
- BEET- CHIOGGIA GUARDSMARK
- BEET - MERLIN
- BEET- RED ACE
- BEET- TOUCHSTONE GOLD
- CUCUMBER- TASTY GREEN
- CILANTRO- SANTO
- EGGPLANT- SHIKOU
- PEPPER, JALAPEÑO- JALAFUEGO
- PEPPER, BELL- EARLY SUMMER
- PEPPER, BELL- NITRO S10
- PUMPKIN- JACK SPRAT
- SWISS CHARD- RHUBARB

**SEEDING CHANGE**

SAKATA GROUP GLOBAL GOALS

**SAKATA GROUP GLOBAL SUSTAINABILITY GOALS**

We aim to contribute to the improvement of people’s lifestyles and cultures around the world and to become the world’s leading seed company by offering excellent quality products and services. With a sustainable and stable supply of high-quality seeds and seedlings, we will continue to solve the social issues that stand in the way of global sustainable development.

**MUTUAL PROSPERITY**

SAKATA Group’s mission is to prosper along with its clients and suppliers.

**MUTUAL INTERESTS**

The mutual prosperity of employees, management, and stockholders: this principle asserts that SAKATA Group’s employees, management, and stockholders are one entity and that their happiness together is integral.

**MUTUAL HARMONY**

This principle is to aim for continuous coexistence between nature on earth and the society and companies which nature surrounds.

We have designated sustainability goals that directly relate to our main line of business in seeds as **“CORE GOALS”**:  
SDG 2 - Zero Hunger, SDG 8 - Decent Work and Economic Growth and SDG 13 - Climate action. We are working toward these goals in a unified manner group-wide.

**CORE GOALS**



The **SUSTAINABLE DEVELOPMENT GOALS** were adopted by all United Nations Member States in 2015 as a universal **CALL TO ACTION** to **END POVERTY, PROTECT THE PLANET** and ensure that all people enjoy peace and prosperity by 2030.





### ASIAN DELIGHT Pak Choi

All-America Selections award-winning Asian Delight pak choi is ready for harvest when you are, with unmatched bolt tolerance and unique deep green, ruffled leaves. The small- to mid-size (5-7 inch) Canton-type heads have a tasty, tender white rib and dark green, textured leaves. Asian Delight forms very tightly packed heads that are heavy for their mini size. Expect to begin harvest in about 30 days. Plants will hold for about 2-3 weeks after maturity.



### LI REN CHOI Pak Choi

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



### EWOK Pak Choi

Ewok is a mini, green-stemmed pak choi with improved, darker green leaves, upright plant habit and higher yield than older varieties. Bolt tolerant, Ewok grows well in both spring and summer planting slots. The plants form a nice vase shape at a small size offering harvest flexibility. Harvest as a baby for multi-head bunching or allow plants to get a little larger for the standard three head bunches popular in farmers markets.



### TOY CHOY Pak Choi

An early-maturing, compact baby pak choi that is perfect for home gardeners and specialty growers. This miniature Canton-type produces glossy, dark green leaves atop broad, milky white petioles. Harvest early, or as soon as buds begin to appear to avoid bolting. Tasty and attractive.



### JOI CHOI Pak Choi

This hybrid revolutionized the production of pak choi in North America by making it a reliable, easy crop to grow. Joi Choi develops heavy, large plants of excellent uniformity that are slow to bolt. Accepted nationwide as the standard industry variety.



### FENG QING CHOI Pak Choi



### MEI QING CHOI Pak Choi

Variety	Relative Maturity / Days to Maturity from Direct Seed	Habit	Head Characteristics	Bolt Resistance	Uses & Remarks
Asian Delight F1	Extra early / 30	Semi-upright, compact	Dark green savoy leaves, thick white petioles	Very high	Unmatched bolt tolerance, tasty, tender ribs, great post-harvest holding. Canton dwarf type.
Ewok F1	Mid / 50	Upright, compact	Dark green leaves, green petioles	High	Improved color. Grow as mini or standard. Bolt tolerant.
Feng Qing Choi F1	Very early / 35-40	Upright, compact	Dark green leaves, green petioles	Very high	A slow-bolting Shanghai-type with a tight vase-shape and excellent holding ability.
Joi Choi F1	Mid / 55	Semi-upright, large	Bright green leaves, thick white petioles	High	Easy to grow with outstanding uniformity. Full, very large plants are widely adapted. Industry standard.
Li Ren Choi F1	Early / 40	Upright, very compact	Medium green leaves, light green petioles	High	Develops pak choi shape very early. Very small, compact plants. Ideal for dense planting.
Mei Qing Choi F1	Very early / 35-40	Upright, compact	Medium green leaves, light green petioles	High	Multi-slot Shanghai-type with good heat and cold tolerance. Can be harvested as "baby" pak choi. Excellent flavor and extra tender.
Toy Choy F1	Extra early / 30-35	Semi-upright, compact	Dark green leaves, thick white petioles	Susceptible	Miniature Canton-type. Extremely early to mature. Ideal for specialty markets.



### SNOW OR SNAP?

Little SnowPea Purple and Little SnowPea White produce small, shiny pods that are flat with very tiny peas inside. The whole pod is edible, providing a mild flavor and crunchy texture when served either raw or cooked.

Little SnapPea Crunch and Little SnapPea Petite are sugar snap peas – a cross between snow peas and garden peas. These edible pods are a bit fuller, with a crunchy texture and sweet, juicy flavor bursting from the baby peas forming inside. They are also delicious raw or cooked.



**LITTLE SNAPPEA CRUNCH**

Pea

**LITTLE SNAPPEA PETITE**

Pea

**LITTLE SNOWPEA PURPLE**

Pea

**LITTLE SNOWPEA WHITE**

Pea

Variety	Days to Maturity from Direct Seed	Pod Type / Characteristics	Plant Habit / Vine Height	Uses & Remarks
Little SnapPea Crunch	58-60	Snap Pea / full, medium green, crunchy, sweet	Compact / 26-32"	Plants hold well as the weather warms.
Little SnapPea Petite	62-65	Snap Pea / baby-size, dusty green, crunchy, sweet	Tall / 70-80"	Sets dainty miniature pods on a full-sized plant.
Little SnowPea Purple	50-54	Snow Pea / flat, medium green, crunchy	Very compact / 20-24"	Space saving plants with ornamental purple flowers.
Little SnowPea White	30-32	Snow Pea / flat, bright green, crunchy	Medium / 36-40"	Powdery mildew resistant plants produce super early. Pods retain flavor and texture, even if harvested late.





## CAMPEÓN Jalapeño

Campeón is widely adapted to various growing conditions throughout the U.S. It yields uniform, dark green, extra-large fruit on large plants. The fruit has a very smooth, classic shape with blunt tips. Matures in about 70 days from transplant.



## EARLY FLAME Jalapeño

Get ready to make your own Sriracha! Early Flame jalapeño pepper plants are very compact, container friendly and productive, setting heavily in a short time frame. The large (4 inch x 1.5 inch) heavy fruit have a thick wall and mature from glossy green to deep red. Harvest early for fresh use or at mature red for sauce. Matures in 60-65 days from transplant.



## JALAFUEGO Jalapeño

Jalafuego is a favorite for home gardens due to its high pungency fruit and compact plant that yields extremely large harvests throughout a long season. Plants perform well in containers or in the garden. The smooth, very dark green fruit has extra length that makes it perfect for growing conditions that may cause fruit to shorten.



## MEGATRON Jalapeño

Megatron is a statement-making new jalapeño that boasts dense, extra-large fruit – averaging 4.5 inches! Despite their generous size, the deep green peppers mature extremely early. Strong, compact plants produce high yields of fruit that show good shelf life after harvest. Days to maturity from transplant: 65.



## SOUNDWAVE Jalapeño

What a Jalapeño! Clocking in as our hottest jalapeno yet, Soundwave sports large, dark green, thick-walled 4" fruits that have an exceptional shelf life. It is a high-yielding, medium height plant with heavy fruit weight making it an excellent choice for fresh market. As good as its yield potential is, the disease resistance package may even be better. Matures 80 days from transplant.



## SPICY SLICE Jalapeño

Spicy Slice delivers uniform, bite-sized jalapeño rings right from the garden. The extra-large, uniformly cylindrical fruit have a medium pungency and thick wall suited to slicing and fresh eating. The vigorous plants are super productive and have a full coverage of leaves to protect the slow to check, medium green fruit from sun damage. An early maturing (65 days from transplant) and widely adapted variety.



## UNICRON Jalapeño

You'll need extra bacon for wrapping jalapeño poppers if using the jumbo-sized Unicon. At an average length of 5", it is now, perhaps the largest jalapeño on the market. The fruits are also crack and check resistant. Unicon is well-suited for warm and cool climates and delivers vigorous plants with good leaf cover, which is required for this heavy setting variety. It provides an excellent disease package, including to bacterial leaf spot and Phytophthora. Its Scoville rating checks in at a comfortable 5,000 units- not too hot, not too mild. 85 days to maturity.



**CHAAK** Habanero

This high yielding, beautifully colored habanero is significantly earlier than O.P. varieties on the market, making it ideal for farm markets, plant producers, and home gardeners in many geographical locations. The heavy, large, thick-walled fruits mature to a lovely bright orange color and show good shelf life after harvest. Strong plants have short internodes and yield a bounty of peppers with the true habanero shape. Days to maturity from transplant: 75-85.

**ARAPAHO** Cayenne (formerly named **Cheyenne**)

Arapaho ripens 10-14 days earlier than the standard varieties on the market (60-65 days from transplant). Ideal for showing young fruit on the plant at the point of sale. Compact plants work well for containers or in the ground and produce very heavy yields all season. Long, wrinkled fruits mature to bright, glossy, candy red. Expect a 2,000-4,000 relative Scoville rating and a great cayenne aroma and flavor.

**CAMPESINO** Pasilla

For a mildly hot, full flavor pepper, look no further than Campesino! This pasilla type ("little raisin") provides depth of flavor, used fresh or in its typical dried form. Vigorous plants provide good yields of extra-large 6.5-8 inch fruits with narrow shoulders and tapered ends. Campesino can be harvested at dark green or after it turns deep burgundy. Fruits show an excellent final dry weight ratio with a Scoville rating up to 1,000 units. HR: TMV:0 \ \ IR: Pc. Matures about 85 days from transplant.

**CRACKLE** Finger Hot

Crackle will light up your garden like a bonfire! The tall, sturdy plant sets continuously throughout the season (in 60-70 days from transplant). Crackle thrives in hot weather with an expansive root system and great leaf cover. Plants set loads of narrow, glossy dark green, pointed fruits (4-5 inches long) that are suitable for fresh use or drying.

**DESPERADO** Anaheim

Desperado is an Anaheim with bold attitude and high yields. The plants are tall with good cover for sun protection. Heavy fruits are smooth and straight, measuring about 7.5 inches long by 1.5 inches at the shoulder. Very mild heat; measures 350-600 scovilles. Fruits can be used fresh or preserved dry or in oil or vinegar. Matures in 60-70 days.

**DURANGO** Guajilo

Durango, a Guajilo-type hot pepper, can be eaten fresh or dried and ground into powder for making sauces, spreads, or rubs. It has mild to medium heat, approximately 2500-5000 scoville units depending on conditions. The 6.5 to 8 inch long fruits mature in 70-80 days from green to red then dry to burgundy-black with excellent dry weight.





**LONE RANGER Serrano**

Lone Ranger is a great heat-set choice, producing high yields of exceptionally large 4-4.5 inch fruits that maintain their size throughout the entire season. The thick walls allow for an extra-long shelf life of fruits showing consistently high heat unit readings. Plants have excellent cover and good disease resistance. Days to maturity from transplant: 68.



**PATHFINDER Serrano**

Pepper breeding geniuses behind the scenes combined huge, thick-walled, pungent fruit with high yields and compact plants to bring you more fruit in less space. Just when we thought it could not get better, they added early-mid maturity (78-80 days), deep green color and disease resistance. Pathfinder is strong plant that is well adapted to both cool and warm conditions. The leaf canopy protects an abundance of 4.5-5 inches deep green, cylindrical, smooth, shiny fruit throughout the season.



**RAJAH Cayenne**

Rajah F1 is an early maturing Long Slim Cayenne type hot pepper with superior fruit quality both fresh and dried. Uniform, vigorous plants have a strong root system allowing for wide adaptability and exceptional performance even in difficult conditions. The generous foliage cover protects heavy yields of hanging fruit against sunscald. Peppers mature to a beautiful dark red about 85 days after transplant. Pungent, well-rounded flavor is characterized by well-known cayenne heat. The thin walled, slightly wrinkled fruit grow in abundance to about 5 inches long and 1/2 inch wide and continue to produce over a long period.



**SARGENTO Poblano**

Sargento is an extra-large fruited poblano (Ancho) with very good quality that matures from glossy, dark green to deep red. The mid-maturity 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. Vigorous plants have 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. Matures 80-85 days from transplant.



**TRIDENT Poblano**

Trident is a superior extra-large poblano. Long, two-lobed fruits show excellent ability to size up in the northern U.S. and Canada and produce multiple harvests in longer season areas. Continuously setting, vigorous plants are very widely adapted. Trident matures mid-season (80-85 days from transplant) from glossy deep green to red and is well suited for the fresh or drying markets. A good replacement for customers who formerly used Tiburon.

Variety	Type	Relative Maturity / Days to Maturity from Transplant	Fruit Size/Shape	Fruit Color	Plant Habit	Disease Resistance	Uses & Remarks
<b>JALAPEÑO:</b>							
<b>Campeón F1</b>	Jalapeño	Mid / 70	Extra-large / Very smooth bullet	Dark green to red	Large, vigorous	HR: PVY: 1.2 / X spp: 0-3, 7, 8	Very adaptable. Uniform fruit.
<b>Early Flame F1</b>	Jalapeño	Very early / 60-65	Large / Very smooth bullet	Dark green to deep red	Compact branching	HR:TEV/PVY: 1.2	Heavy yielder, compact plant works well in containers, great for sauces.
<b>Jalafuego F1</b>	Jalapeño	Mid / 70	Extra-large / Long, tapered end	Dark green to red	Medium, vigorous	HR: PVY: 1.2 / X spp: 0-3, 7, 8	Good for pots. Excellent fruit length. <i>Organic and non-organic seed available.</i>
<b>Megatron F1</b>	Jalapeño	Early / 65	Extra-large / cylindrical to blunt	Dark green	Medium compact	HR: Tm: 0 / X spp: 0-3, 7, 8	Extra large fruits are produced early.
<b>Soundwave F1</b>	Jalapeño	Mid / 80	Large / Cylindrical to blunt	Dark green to red	Medium	HR: X spp 0-3, 7, 8 \ IR: Pc	Our hottest jalapeno. Excellent shelf life.
<b>Spicy Slice F1</b>	Jalapeño	Early / 65	Extra-large / Elongated, cylindrical to blunt	Green to red	Medium-large	HR: X spp: 0-3, 7, 8 \ IR: TEV	Elongated cylindrical fruit for slicing.
<b>Unicon F1</b>	Jalapeño	Mid-late / 85	Jumbo / cylindrical to blunt	Dark green to red	Medium-tall	HR: X spp: 0-3, 7, 8, HR: Tm: 0, IR: Mi / Pc	Our largest fruited jalapeno with an excellent disease package and high yields.
<b>SPECIALTY:</b>							
<b>Arapaho F1</b>	Cayenne	Early / 60-65	Large / Long, wrinkled	Green to bright red	Medium compact	-	Very early, heavy yields of very large fruits. Highly ornamental.
<b>Campesino F1</b>	Pasilla	Mid / 85	Large / Long, tapered	Dark green to red	Medium-large	HR: TMV: 0 \ IR: Pc	Strong, healthy plants with high yield potential. Classic pasilla flavor.
<b>Chaak F1</b>	Habanero	Early / 75-85	Wrinkled	Green to creamy orange	Vigorous	IR: TSWV	Heavy yielding hybrid that is early for the habanero class. Strong plants.
<b>Crackle F1</b>	Finger Hot	Mid-early / 60-70	Large to XL / Long, tapered at end	Dark green to red	Medium, good cover	-	Sturdy plants produce high yields of heavy fruit for fresh market or drying.
<b>Desperado F1</b>	Anaheim	Mid-early / 60-70	Large to XL / Long, semi flat conical	Light green to red	Medium, good cover	-	Well suited as a dual purpose Anaheim.
<b>Durango F1</b>	Guajilo	Mid / 70-80	Large to XL / Long, tapered	Dark green to red	Erect, medium-large	HR: TMV: 0 \ IR: Pc	For fresh and drying. Plants show good field performance.
<b>Lone Ranger F1</b>	Serrano	Early / 68	Cylindrical to blunt	Light green	Medium	HR: X spp 0-3, 7, 8	Excellent plant cover and good heat set. 4 - 4-1/2" fruits that re thick-walled.
<b>Pathfinder F1</b>	Serrano	Mid / 78-80	Extra-large / Long cylindrical	Dark green	Medium tall, good cover	HR: Tm: 0 / X spp: 0-3, 7, 8 \ IR: Mi / Pc	Adapted to warm or cool weather, very high yields.
<b>Rajah F1</b>	Cayenne	Mid-late / 85	Long, slim	Green to bright red	Vigorous	-	Widely adaptable pepper with superior fruit quality, both fresh and dried.
<b>Sargento F1</b>	Poblano	Mid-late / 80-85	Large / Flattened, tapered	Dark green to red	Tall	IR: Mi / Pc	High % of 2-lobed fruits. Suited for the fresh and drying market.
<b>Trident F1</b>	Poblano (Ancho)	Mid-late / 80-85	Extra-large / Semi flat, flattened	Medium-dark green to red	Tall	HR: Tm: 0	High yield potential with multiple harvests. Maintains very good fruit size in varied conditions.

Disease terminology: HR = High Resistance, IR = Intermediate Resistance.

Disease code: Mi - Root knot, Pc - Phytophthora root rot, PVY - Potato Y, TEV - Tobacco etch, Tm - Tobamovirus, TMV - Tobacco mosaic, TSWV - Tomato spotted wilt, X spp (formerly Xcv) - Bacterial spot.





These beauties are ready to take on the latest growing challenges, most notably: Bacterial leaf spot X spp (or Xcv). They show intermediate resistance to all 10 races of this serious pepper disease (especially important in the Eastern US). Each is widely adapted and produces very high yields of firm, large to extra-large, glossy, dark green to red fruits on vigorous plants. Samurai S10® fruits mature early at about 70 days from transplant, while Ninja, Nitro and Shogun S10® fruits ripen about 5 days later. All have added resistance to TMV:0 as well!



### NINJA S10® Bell Pepper

This beauty is ready to take on the latest growing challenges, most notably: Bacterial leaf spot (X spp). Ninja S10® shows intermediate resistance to all 10 races of this serious pepper disease (especially important in the Eastern US). It is widely adapted and produces very high yields of firm, glossy, dark green to red fruits on vigorous plants. Extra large fruits ripen in about 75 days and show impressive field holding ability. HR: Tm: 0 \ IR: X spp: 0-10.



### NITRO S10® Bell Pepper

Nitro S10® brings glossy, dark green to deep red, blocky peppers to areas under disease pressure. The smooth, uniform fruit have thick walls and good size. Nitro S10® prefers regular feeding to build medium-tall healthy high yielding plants. Best adapted to fall and spring production in the Southeast USA and summer in the Northeast. HR: Tm: 0 \ IR: Pc, TSWV, X spp: 0-10. Matures in 75 days. *Organic and non-organic seeds available.*



### SAMURAI S10® Bell Pepper

This beauty is ready to take on the latest growing challenges, most notably: Bacterial leaf spot. Samurai S10® shows intermediate resistance to all 10 races of this serious pepper disease (especially important in the Eastern US). It is widely adapted and produces very high yields of firm, glossy, dark green to red fruits on vigorous plants. Extra large fruits ripen in about 70 days and show impressive field holding ability. HR: Tm: 0 \ IR: X spp: 0-10.



### SHOGUN S10® Bell Pepper

Shogun S10® is an extra-large variety with high yield potential. 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 large to extra-large fruit are smooth and firm with a glossy dark green color maturing to red. Fruit tend to be a slightly longer blocky shape with four lobes. Shogun S10 has a vigorous, medium to tall plant with good cover and continuous setting ability. HR: Tm: 0 \ IR: TSWV, X spp: 0-10. Matures in about 75 days.



### ARICA Bell Pepper

Glossy and attractive, Arica bell pepper is widely adapted, early, and easy to grow. Fruit are large to extra-large, smooth and firm with bright red color at full maturity. The plant has good vigor, and is compact with very good cover and high yield potential. Arica has a heavy first set with the ability for continuous setting. It has high resistance to Tm: 0 / X spp: 0-3, 7, 8 and intermediate resistance to TSWV. Arica is well suited for both green and red harvest. Matures 70-75 days from transplant.



### BLITZ Bell Pepper

Blitz is an early maturing (68-73 days from transplant), extra-large blocky green to red bell with great yield potential at first harvest. Fruit are high quality with thick walls and a uniformly blocky shape. Blitz is a consistent performer providing size and quality. Blitz has high resistance to Tm: 0, and X spp: 0-5, 7-9 and intermediate resistance to TEV.



### CHEROKEE Bell Pepper

Cherokee boasts sturdy, widely adapted, and disease resistant plants suitable for open field and low-tech protected culture. Cherokee is well-suited for extended harvests, high yields of extra-large, firm, heavy fruit. Matures (72 to 78 days from transplant) from dark green to candy apple red. HR: Tm 0-3 / X spp: 0-3, 7, 8 \ \ IR: TSWV.



### CLASSIC Bell Pepper

Classic is a green-to-red, high-yielding bell that has outstanding fruit quality, with thick walls and a uniform blocky shape. Classic is widely adapted and offers good heat-set ability. It approaches greenhouse quality in the open field. Classic has high resistance to TMV: 0 and X spp: 0-3, 7, 8. Matures 70-80 days from transplant.



### DOUBLE UP Bell Pepper

Double Up is a popular green-to-red bell pepper known for dependable performance in most Western U.S. growing regions, as well as Mexico and Central America. It offers early-mid maturity with high yields of quality fruit. Double Up has high resistance to Tm: 0 and X spp: 0-3, 5, 7. Matures 70-75 days from transplant.





**EARLY SUMMER Bell Pepper**

Early Summer is mid-early maturing (68-73 days from transplant), 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 uniformly blocky shape. Early Summer has an excellent disease resistance package. HR: Tm 0 / X spp 0-5,7,9 \ IR: TSWV. *Organic and non-organic seeds available.*



**MAJESTIC RED Bell Pepper**

Majestic Red is a standard for home garden bell peppers. The huge, smooth fruit mature to a bright red, have a thick wall, and crunchy texture. Fruit are blocky, firm, and heavy for their size and set quickly to ensure a good yield. Plants are medium to large, have good cover, and are widely adapted to most regions of the U.S. HR: TMV: 0 / X spp 0-3,5,7,8 \ IR: Pc. Matures 75-80 days from transplant.



**MERCER Bell Pepper**

Mercer's deep emerald to ruby red color will stop you in your tracks! As a bonus, Mercer delivers high yields, good cover, and firm, thick-walled fruit. The large, disease resistant plants are well adapted to many growing regions. HR: Tm: 0 / X spp: 0-3, 7, 8 \ IR: Pc. Days to maturity from transplant: 72-78.



**TOUCHDOWN Bell Pepper**

Touchdown offers a strong prolific plant with continuous setting ability and excellent cover. This variety has high yield potential of large to extra-large blocky fruit that mature from green to red. The fruit are smooth with thick walls and have a uniformly blocky shape. Touchdown has high resistance to Tm: 0 and X spp: 0-5, 7-9.

Variety	Relative Maturity / Days to Maturity from Transplant	Fruit Size	Fruit Color	Plant Habit	Disease Resistance	Uses & Remarks
<b>SWEET BELL:</b>						
<b>Arica F1</b>	Mid / 70-75	Large to XL	Green to bright red	Compact-medium	HR: Tm: 0 / X spp: 0-3, 7, 8 \\ IR: TSWV	Very adaptable, extra-large bell with high yield potential and good cover.
<b>Blitz F1</b>	Early-mid / 68-73	XL	Green to red	Medium-large	Tm: 0 / X spp: 0-5, 7-9 \\ IR: TEV	Fruits are high quality with thick walls and a uniform blocky shape. A very consistent performer.
<b>Cherokee F1</b>	Mid / 72-78	Large to XL	Dark green to red	Large, good cover	HR: Tm: 0-3 / X spp: 0-3, 7, 8 \\ IR: TSWV	Excellent, quality, mostly 4-lobed fruit. Strong, tall plant, good for CEA.
<b>Classic F1</b>	Mid / 70-80	Large to XL	Green to red	Medium plant with good cover	HR: TMV: 0 / X spp: 0-3, 7, 8	Quality, thick walled fruit. Approaches greenhouse quality fruits even in open field growing.
<b>Delray S10 F1</b>	Mid / 75	Large to XL	Green to yellow	Medium-large	HR: Tm: 0 \\ IR: TSWV, X spp: 0-10	A multi-disease resistant yellow bell with high yield potential and continuous setting ability.
<b>Double Up F1</b>	Mid / 70-75	Large to XL	Green to red	Medium-large with great cover	HR: Tm: 0 / X spp: 0-3, 5, 7, 8	Dependable, top performer for multiple seasons with an excellent disease resistance package.
<b>Early Summer F1</b>	Early-mid / 68-73	XL	Green to yellow	Medium with good cover	HR: Tm: 0 / X spp: 0-5, 7-9 \\ IR: TSWV	Impressive quality and yield with high disease resistance. <i>Organic and non-organic seed available.</i>
<b>Majestic Red F1</b>	Mid-late / 75-80	XL to Jumbo	Green to bright red	Medium with good cover	HR: TMV: 0 / X spp: 0-3, 5, 7, 8 \\ IR: Pc	Extra large, heavy fruit have thick walls.
<b>Mercer F1</b>	Mid / 72-78	Large to XL	Green to red	Medium tall	HR: Tm: 0 / X spp: 0-3, 7, 8, IR: Pc	Delivers high yields, good cover, and thick-walled fruits. Well adapted.
<b>Ninja S10 F1</b>	Mid / 72-77	XL to Jumbo	Green to deep red	Large, vigorous	HR: Tm: 0 \\ IR: X spp: 0-10	Shows intermediate resistance to all 10 races of bacterial leaf spot; widely adapted, very high yielder.
<b>Nitro S10 F1</b>	Mid / 75	Large to XL	Dark green to red	Medium, good cover	HR: Tm: 0 \\ IR: Pc/TSWV/ X spp: 0-10	Strong disease package for entire east coast of US. <i>Organic and non-organic seed available.</i>
<b>Samurai S10 F1</b>	Mid / 70-75	Large to XL	Green to red	Medium-large, vigorous	HR: Tm: 0 \\ IR: X spp: 0-10	Shows intermediate resistance to all 10 races of bacterial leaf spot; widely adapted, very high yielder.
<b>Shogun S10 F1</b>	Mid / 75-77	Large to XL	Dark green to red	Medium-large, tall	HR: Tm: 0 \\ IR: TSWV/ X spp: 0-10	Shows intermediate resistance to all 10 races of bacterial leaf spot; widely adapted, very high yielder.
<b>Touchdown F1</b>	Mid / 70-80	XL	Green to red	Medium-large with good cover	HR: Tm: 0 / X spp: 0-5, 7-9	Excellent yield potential over long cycle production.

Disease terminology: HR = High Resistance.

Disease code: Pc - Phytophthora root rot, Tm - Tobamovirus, TEV - Tobacco etch, TMV - Tobacco mosaic, TSWV-Tomato spotted wilt, X spp (formerly Xcv) - Bacterial spot.



SNACKING



**Delite**  
SERIES

PEPPERS



Delite snacking peppers are a favorite for the whole family! These healthy snacks satisfy crunchy cravings while providing beta-carotene and vitamin C. Kids love the colors and gardeners of all types will love the easy-care plants. Delites can be grown in ground or in containers (plant one per 18-inch pot) and will benefit from a stake or tomato cage for support as the peppers mature.



**LEMON DELITE**  
Snacking Pepper



**ORANGE DELITE**  
Snacking Pepper



**RUBY DELITE**  
Snacking Pepper



**GRENADA** Cubanelle

This Cubanelle type boasts large to extra-large, smooth, thin-walled fruit that are perfect for frying, grilling or stuffing. Mild, flavorful fruits are born on vigorous strong plants and measure 7.5 inches long and 2.5 inches at the shoulder. They can be harvested green or left to mature to glossy red.



**LOLA** Banana

Bright, shiny color, super yields and mild flavor make Lola sweet banana pepper a star. Fruits mature early on plants that are widely adapted and disease resistant. Extra-large fruits are smooth and straight, measuring about 8 inches long by about 1.5 inches wide at the shoulder. Lola matures from light yellow to orange to bright red and is sweet and crunchy with firm, thick walls when picked at any stage.



**TAKARA** Shishito

The shishito is a sweet pepper, but an average of 1 in 10 fruits will surprise with mild heat. Our hybrid provides higher yields of more uniform 3 to 4 inch fruit and consistent seed quality compared to O.P. strains. The sturdy plant has a well branched, mounding habit with short internodes to hold the weight of the high production potential. Prepare with a quick coat of oil and toss in a pan or on the grill.



**YELLOW SPARKLER**  
Snacking

Yellow Sparkler is a sweet snacking pepper that turns from green to bright, rich yellow. Fruits are prolific in number and extra sweet and crisp compared to similar types. The peppers are elongated with a blunt tip, growing 2-3 inches long by 1.5 inches in diameter. The 20-24 inch tall plants are suitable for the garden or for containers.

## HUNGARIAN CHEESE TRIO

This fun series is very early-maturing yet sets continuous high yields. Round, flattened fruits are thick-walled and fluted at the stem end. Plants are suited for containers or the garden and fruits are ideal stuffed or pickled. All mature to full color early, between 60 and 68 days from transplant.



**ORANGE YOU SWEET**  
Sweet Pepper



**RIGHT ON RED**  
Sweet Pepper



**YES TO YELLOW**  
Sweet Pepper

Variety	Type	Relative Maturity / Days to Maturity from Transplant	Fruit Size/Shape	Fruit Color	Plant Habit	Disease Resistance	Uses & Remarks
<b>SPECIALTY:</b>							
<b>Grenada F1</b>	Cubanelle	Mid / 75	Extra large / blocky, long	Light green to red	Medium-large, good cover	HR: X spp: 0-3, 7, 8	Extra large fruits, smooth fruits that are perfect for frying, grilling, or stuffing. Can be harvested green or red.
<i>Delight Series:</i> <b>Lemon Delite F1</b>	Snacking	Very early / 60-65	Medium / conical, flat	Green to lemon yellow	Medium tall, vigorous	HR: Tm: 0 / X spp: 0-3,7,8	Small, crunchy & flavorful; early maturing, good heat setting ability.
<i>Delight Series:</i> <b>Orange Delite F1</b>	Snacking	Very early / 58-65	Medium small / conical, flat	Green to deep orange	Upright, vigorous	HR: Tm: 0 / X spp: 0-3,7,8	Crunchy & flavorful; very early maturing and high yielding.
<i>Delight Series:</i> <b>Ruby Delite F1</b>	Snacking	Very early / 60-65	Small / conical, flat	Green to ruby red	Medium tall, strong, vigorous	HR: Tm: 0 / X spp: 0-3,7,8	Small, crunchy & flavorful; early maturing and high yielding.
<b>Lola F1</b>	Banana	Early / 65-70	Large to XL, elongated tapered	Light yellow to bright red	Medium-large with good cover	HR: Xcv: 0-3, 7-8 \\ IR: TSWV	Highly ornamental, widely adapted and heavy yielder. Excellent flavor and texture.
<i>Cheese Trio Series:</i> <b>Orange You Sweet F1</b>	Hungarian Cheese	Early / 65-68	Small / Flat round	Dark green to deep orange	Medium compact	-	Compact, branching plants produce highly ornamental fruits.
<i>Cheese Trio Series:</i> <b>Right On Red F1</b>	Hungarian Cheese	Early / 65-68	Small / Flat round	Dark green to deep red	Medium compact	-	Compact, branching plants produce highly ornamental fruits.
<i>Cheese Trio Series:</i> <b>Yes To Yellow F1</b>	Hungarian Cheese	Early / 65-68	Small / Flat round	Dark green to yellow	Medium compact	-	Compact, branching plants produce highly ornamental fruits.
<b>Takara F1</b>	Shishito	Very Early / 60	Small / Elongated	Bright green to bright red	Compact, well branched	-	Hybrid with 'classic' Shishito shape, size, and quality.
<b>Yellow Sparkler F1</b>	Snacking	Early / 65-68	Mini, elongated tapered	Green to yellow	Compact, mounding	HR: Tm: 0	Early maturing and high yielding. These peppers have few seeds.

Disease terminology: HR = High Resistance.

Disease code: Tm - Tobamovirus, TSWV-Tomato spotted wilt, X spp (formerly Xcv) - Bacterial spot.





**BIG DEAL Pumpkin**

We don't like to boast, but this pumpkin is a Big Deal! Big Deal is a large 25-30 pound pumpkin with a hefty, well-embedded handle, uniform sized, sturdy fruit, dark orange color, and good yield potential. Plants have intermediate powdery mildew resistance and stand up to hot summer and fall conditions. Days to maturity from direct seed: 100.



**FLAT WHITE BOER FORD Pumpkin**

A beautiful, unique offering for the home garden and specialty markets. Our selection offers quality oval, flattened fruits with a creamy white rind and thick orange flesh. The flavor is sweet and eating quality is excellent. Fruits store well for long periods and their tough rinds make them able to be handled without blemishing. Matures in 110-120 days.



**JACK SPRAT Pumpkin**

Jack Sprat is a kid-sized pumpkin with a semi-determinate, powdery mildew resistant vining plant. Fruits weigh in at 2-3 pounds and have a nice, dark orange, lightly ribbed exterior, dark green embedded handles and small seeds. It sets a very high number of fruit per compact plant. Pumpkins measure 5 inches high by 6 inches wide and mature in 100 days. *Organic and non-organic seeds available.*



**KANDY KORN PLUS Pumpkin**

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.



**HULK Pumpkin**

Hulk smashes the competition with high yields of extra-large, 30 pound+, oblong barrel-shaped, ribbed fruit. Hulk sets multiple, uniform sized fruits per plant. Hulk is dark orange with a large, dark green, embedded handle. The plants have a space-saving restricted vine. Days to maturity from direct seed: 100.



**LARGE MARGE Pumpkin**

Large Marge tips the scales at a whopping 30-40 pounds! This extremely large variety has a deep orange, glossy exterior with a dark green, large, embedded handle to match the fruit size. Large Marge plants are full-vined and can set multiple fruits per plant and maintain size. The traditional blocky-round shape is perfect for carving or decorating. Plants mature in about 105 days.





**CAPTAIN JACK**  
Pumpkin



**EARLIPACK**  
Pumpkin



**FALL SPLENDOR PLUS**  
Pumpkin



**HIJINKS**  
Pumpkin



**MR. WRINKLES**  
Pumpkin



**MRS. WRINKLES**  
Pumpkin



**ROCKAFELLOW**  
Pumpkin



**SPARTACUS**  
Pumpkin



**SPARTAN**  
Pumpkin



**TOAD**  
Pumpkin



Variety	Days to Maturity from Direct Seed	Fruit Size / Shape / Weight	Skin Color / Ribbing	Vine Type	Disease Resistance	Uses & Remarks
<b>SMALL:</b>						
Jack Sprat F1	100	5 x 6" / Round block / 2-3 lbs	Dark orange / Shallow ribs	Semi-determinate	HR: Px	Strong embedded handle, very uniform, high fruit per plant and yield potential. High resistance to powdery mildew. <i>Organic and non-organic seed available.</i>
Kandy Korn Plus F1	85	4.25 x 3.5" / Oblate / 1 lb	Orange / Smooth	Bush	IR: Px	Compact, bush plants produce very high yields of tiny pumpkins.
Rockafellow F1	95	5.5 x 6.5" / Oval tear drop / 2-3 lbs	Dark orange / Smooth	Bush	-	Hard shell and smooth skin make it ideal for painting. Unique tall oval shape.
Toad F1	85	5.5 x 4.5" / Tear drop / 1.5-2.5 lbs	Bright to dark orange / Warty	Bush	-	Nice embedded handles on unique, ornamental, warty fruits. Perfect for holiday decorating.
<b>MEDIUM:</b>						
Fall Splendor Plus F1	105	6.5 x 8" / Round blocky / 4-6 lbs	Dark orange / Medium ribs	Semi-determinate	IR: Px	A small Jack O'Lantern with rich color and long, strong carrying handle.
Hijinks F1	100	7.5 x 8" / Round blocky / 7-9 lbs	Dark orange / Shallow ribs	Indeterminate	-	AAS Award Winner. Our highest yielding variety in this class.
<b>LARGE:</b>						
Big Deal F1	100	13 x 10" / Blocky oval / 25-30 lbs	Dark orange / Medium ribs	Indeterminate	IR: Px	Produces large, 25 lb fruits with well-embedded handles. Good yield potential.
Captain Jack F1	110	15 x 13" / Tall barrel / 30+ lbs	Medium-dark orange / Medium ribs	Indeterminate	-	Produces several extra-large fruits per plant. Does require lower plant population to obtain larger size. Thick handle and flattened bottom.
Earlpack F1	95	11.5 x 13" / Round blocky / 18-22 lbs	Dark orange / Medium ribs	Semi-determinate	IR: Px	Uniform blocky round, Jack O'Lantern-type fruit with dark green handles. Good yields on compact plants.
Hulk F1	100	14 x 10" / Tall barrel / 30+ lbs	Dark orange / Medium ribs	Indeterminate	-	Produces multiple, uniform sized fruits per plant. Fruits have a well-embedded handle.
Large Marge F1	105	13.5" x 13" / Round blocky / 30-40 lbs	Dark glossy orange / Deep ribs	Indeterminate	-	Extremely large fruit with rich color and interesting texture.
Mr. Wrinkles F1	100	13 x 10.5" / Barrel / 20-30 lbs	Dark orange / Deep wrinkled ribs	Indeterminate	-	Deeply wrinkled ribbing. Strong embedded handle; very strong vine.
Mrs. Wrinkles F1	100	9 x 10" / Round blocky / 14-18 lbs	Burnt orange / Deep wrinkled ribs	Semi-determinate	-	Deep wrinkled ribs, burnt-orange color and a strong embedded handle.
Spartacus F1	100	12 x 12" / 18-22 lbs	Dark orange / Medium-deep ribs	Semi-determinate	IR: Px	Uniform size and blocky-round shape. 40-count Jack-o-Lantern class.
Spartan F1	95	1.5 x 13" / Round / 20-25 lbs	Burnt orange / Deep ribbing	Semi-determinate	IR: Px	Spartan has deep green, firmly attached handles. Earlier maturing and performs well in hot conditions.
<b>SPECIALTY:</b>						
Flat White Boer Ford	110-120	Flattened / 10-15 lbs	Creamy white / Widely spaced, medium deep ribs	Indeterminate	HR: Px	Unique color and shape for specialty markets; stores well.

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



### CRUNCHY DELIGHT Radish

Crunchy Delight is a new summer-type radish that displays nice uniformity and internal qualities. The consistently round, bulb-shaped fruit are a glossy scarlet red with a brilliant white interior and are tolerant of cracking and pithing. Plants produce medium-tall, erect tops, and show excellent yield potential, especially in Northern growing areas. Days to maturity from direct seed: 28.



### EASTER EGG II Radish

Delightful roots develop in shades of white, pink, red and purple and have a mild, delicate flavor. Easter Egg II is certain to add beauty and distinction to salads or the appetizer tray. The large, round radishes mature in about 28 days below medium-tall, strap leaves and are late to develop any pithiness.



### FRENCH BREAKFAST Radish

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 and excellent for your home garden.



### REGAL RED Radish

Regal Red features fast maturing, attractive, scarlet red bulbs. While it is a summer variety that is suitable for many radish growing areas, it also performs well for spring/fall growing seasons. It yields very uniform, round bulbs with a medium-short top.



### STARBURST Radish

Starburst is our newest watermelon-type radish. It displays a beautiful, rich color contrast with a rosy pink interior and pale green and white exterior. The mild radish flavor with crisp, juicy texture makes a delicious addition to salads, slaws or for pickling. Upright bright green tops have a strong attachment. Plant in summer for harvest in fall.



### CRUNCHY CRIMSON Radish



### FIREBALL Radish



### SHUNKYO SEMI-LONG Radish





**CRUNCHY KING**  
Radish



**CRUNCHY RED**  
Radish



**CRUNCHY ROYALE**  
Radish

Variety	Category	Days to Maturity from Direct Seed	Root Characteristics	Uses & Remarks
<b>HYBRID:</b>				
<b>Crunchy Crimson F1</b>	Round Red	27	Round, medium-large, dark red	Vigorous tops under cool conditions. High yields with good uniformity.
<b>Crunchy Delight F1</b>	Round Red	28	Round, large, scarlet red	This is a summer type radish that is tolerant of cracking and pithing. Shows a consistently round shape.
<b>Crunchy King F1</b>	Round Red	24	Round, scarlet red	Crunchy King holds its round shape and does well all season, but it is strongest in fall and spring slots.
<b>Crunchy Red F1</b>	Round Red	25	Round, medium-large, scarlet red	Roots size up very well in cool conditions. Excellent pith tolerance.
<b>Crunchy Royale F1</b>	Round Red	25	Round, dark red	High quality roots show excellent uniformity and good exterior color. Grows well under cool conditions.
<b>Fireball F1</b>	Round Red	25	Round, dark red	Performs well in warm weather. Hybrid uniformity.
<b>Regal Red F1</b>	Round Red	24	Round, scarlet red	A quickly maturing variety with scarlet red bulbs. Adaptable to many areas.
<b>OPEN POLLINATED:</b>				
<b>Easter Egg II</b>	Specialty	28	Round, shades of white, pink, red and purple	Multi-colored variety for the home garden and novelty trades.
<b>French Breakfast</b>	Specialty	22	Oblong, scarlet with white tip	Elongated scarlet and white roots with delicate flavor.
<b>ASIAN:</b>				
<b>Shunryo Semi-Long</b>	Chinese	32	Elongated tapered, bright rosy pink exterior, bright white interior. Elongated roots are 4-5 inches long.	This attractive Asian-type boasts a hot/sweet flavored 4-5 inch long root. The slow bolting, pink stemmed tops are also edible and can be grown for baby greens mixes. Can be sown throughout the year.
<b>Starburst</b>	Watermelon	60	Oval-round and large, pale green and white exterior, rosy pink interior	Vibrant colored, mild flavored roots. Plant as the temperatures cool, in late summer or fall. Popular for both home garden and fresh market.

\* Days to harvest are based on summer conditions.



### LAURENTIAN Rutabaga

Laurentian has large, globe-shaped roots that are creamy white with deep purple crowns. It has upright, dark green, edible leaves that regrow quickly after cutting. Laurentian has a mild flavor and refined texture and stores well after harvest. Plants mature in about 90-100 days and have good bolt tolerance. It is an excellent choice for fresh market and home gardeners.

### PLYMOUTH Spinach

Plymouth is a fast-growing full leaf type. The upright plant habit helps keep leaves clean and easy to harvest. Plymouth has smooth, medium-dark green leaves that are uniform in shape and size. The thick leaves are slightly savoyed and spade-shaped. The plants are resistant to many strains of downy mildew.



**NEW**  
VARIETY



### AFFLUENCE Spinach

Affluence is a beautiful, deep emerald green variety with smooth, round-oval shaped leaves. Plants are moderate to fast-growing and resistant to Downy Mildew 1-19. Affluence is a great choice for organic spinach growers or any grower facing Downy Mildew pressure. Affluence has an upright plant habit, a great feature for bunching or harvesting loose leaves.



### IMPERIAL BEACH Spinach

Imperial Beach Asian-type spinach is deep green and smooth with an upright plant habit making it easy to harvest and bunch. Plants are quick growing and very uniform for leaf shape and size and color. Imperial Beach has downy mildew resistance and flexible but strong petioles, resulting in less stem breakage during harvest and transportation.





### IMPERIAL VALLEY Spinach

Imperial Valley is a dark green, smooth, Asian-type spinach variety suitable for home gardeners and farm market growers. The uniform, deep green, Asian lobed leaves have flexible and strong petioles - making them easy to harvest and great for bunching. Imperial Valley grows very quickly and has resistance to many strains of downy mildew, making it a grower friendly choice.



### INCOME Spinach

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



### OLYMPIA Spinach

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 due to its bolt tolerance and large leaves. In addition, Olympia has resistance to races 11-12, 14 & 16 of downy mildew.



### PROSPER Spinach

Prosper is a widely adapted baby leaf variety with great disease resistance, making it attractive to multiple markets. This baby leaf spinach holds a uniform shape and size. The smooth, dark green, upright leaves are thick and heavy yielding. It has a slow to moderate growth rate. Sakata's downy mildew races 1-19 resistance safeguards Prosper from this common complication.



### REWARD Spinach

Reward has dark green, smooth leaves and an upright plant habit for easy harvest. Reward has very uniform round oval leaves. It is a moderate to fast-growing baby leaf variety that is friendly for organic growers due to its full Downy Mildew resistance.



### TRIBUTE Spinach

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

The “side” series of Sakata baby spinach varieties offers many options for baby spinach growers. All the “sides” have deep green leaves, upright growth habit and easy to clean leaves. Sakata strives to continuously improve mildew resistance and increase choices in growth rate and leaf appearance for growers. If you are a baby leaf grower we have a spinach for you!



**COUNTRYSIDE**  
Spinach



**DARKSIDE**  
Spinach



**OCEANSIDE**  
Spinach



**RIVERSIDE**  
Spinach



**SEASIDE**  
Spinach

Variety	Type	Days to Maturity from Direct Seed	Plant Type / Leaf Shape	Leaf Color	Bolting Resistance	Disease Resistance	Uses & Remarks
<b>Affluence F1</b>	Baby Leaf	20-27	Erect / oval, round	Dark green	Low	HR: Pfs: 1-19	Excellent downy resistance making it a great choice for organic production. Bunch or clip.
<b>Countryside F1</b>	Baby Leaf	23-27	Upright / round, oval	Dark green	Moderate	HR: Pfs: 1-12, 14-16, 19	Exhibits excellent uniformity. Performs well in many baby leaf growing slots.
<b>Darkside F1</b>	Baby Leaf	27-32	Upright / round, oval	Dark green	Moderate	HR: Pfs: 1-12, 14-16, 19 \ IR: Fos	Uniform, thick, dark green and smooth leaves. A great choice for baby leaf growers.
<b>Imperial Beach F1</b>	Asian, Mature Leaf	35-40	Upright / smooth, heavily lobed, arrow	Dark green	Low-moderate	HR: Pfs: 1-11,13,15,16	Fast growing, flexible but strong petioles, deep color
<b>Imperial Valley F1</b>	Asian, Mature Leaf	30-40	Upright / smooth, slightly lobed, arrow	Dark green	Low-moderate	HR: Pfs: 1-11,13,15,16	Fast growing, flexible but strong petioles, strong regrowth.
<b>Income F1</b>	Baby Leaf	20-27	Erect / oval, round	Dark green	Low	HR: Pfs: 1-19	A moderate to fast growing variety that performs especially well in cooler growing slots.
<b>Oceanside F1</b>	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 / Sls	A versatile baby leaf, bunch, clip variety.
<b>Olympia F1</b>	Mature Leaf	45-50	Semi upright / oval, elongated	Green	High	HR: Pfs: 1-3, 5, 8, 9, 11, 12, 14, 16	Excellent bolt tolerance. Prefers early spring or late summer growing window.
<b>Plymouth F1</b>	Mature Leaf	40-45	Semi-Savoy / spade	Dark green	Moderate	HR: Pfs: 1-11, 13, 15, 16	Upright semi-savoy, uniform with thick leaves.
<b>Prosper F1</b>	Baby Leaf	25-30	Erect / oval, round	Dark green	Low	HR: Pfs: 1-19 \ IR: Fos	Variety with excellent downy resistance. Smooth, dark green, upright leaves.
<b>Reward F1</b>	Baby Leaf	20-27	Erect / Oval, round	Dark green	Low	HR: Pfs: 1-19	A moderate to fast growing baby leaf with exceptional downy resistance.
<b>Riverside F1</b>	Baby Leaf	25-30	Upright / smooth, spade	Very dark green	Moderate	HR: Pfs: 1-11, 15-16, 19 \ IR: 12, 14	Extremely dark color; multi-use.
<b>Seaside F1</b>	Baby Leaf	25-30 baby leaf	Smooth, upright / spade	Dark green	Moderate	HR: Pfs: 1-11, 15-16, 19 \ IR: 12, 14	Thick leaves grow uniformly and upright. Ideal for baby leaf.
<b>Tribute F1</b>	Baby Leaf	20-25	Upright / oval, round	Dark green	Moderate	HR: Pfs: 1-12, 14, 16	Nicely attractive puckered leaf texture. Uniform in shape and size.

Disease terminology: HR = High Resistance, IR = Intermediate Resistance.

Disease code: Fos - Fusarium wilt, Pfs - Downy mildew, Sls - Stemphylium leaf spot (*S. beticola* & *S. vesicarium* strains).





**COMETA** *Lebanese*

This Lebanese-type squash offers great productivity on vigorous plants. The bulbous-shaped fruits are gray-green with dark green specks. The flavor is rich and nutty and is widely used in Middle Eastern dishes for stuffing. Cometa also lasts well after harvest.



**ENDEAVOR** *Zucchini*

Endeavor produces early and steady yields of uniformly cylindrical, medium-dark green, glossy fruit. Plants are vigorous, with a nice open habit and small spines for easy harvest. Suitable for many growing areas, Endeavor offers a robust disease resistance package.



**FIESTA** *Zucchini*

Fiesta offers spineless petioles, which produce outstanding yields with minimal harvest damage. The open plant habit allows for ease of harvest for the uniformly shaped and sized fruit. Fiesta's skin color is rich, dark black-green with minimal to no flecking.



**TRIUMPH** *Zucchini*

Triumph has the most extensive disease package of any of our zucchinis, making it a sure winner for a variety of markets and grower types (IR: ZYMV, WMV, PRSV, Px). The medium-dark green fruits show a very high gloss and stems have reduced spines, limiting scratching and blemish marks which reduce post-harvest holding ability. The open plant architecture allows for easy harvest and the controlled plant vigor makes Triumph ideal for tighter plantings. High yield potential and wide market adaptability add to the complete package of this latest offering.

Variety	Type	Days to Maturity from Direct Seed	Fruit Shape	Size: Length x Diameter	Skin Characteristics	Plant Habit	Uses & Remarks
<b>Cometa F1</b>	Lebanese	48	Bulbous	5 x 1-2"	Light gray-green, medium flecking	Medium-large	Nutty flavor. Excellent post harvest shelf life.
<b>Endeavor F1</b>	Zucchini	45	Cylindrical	7 x 2"	Medium-dark glossy green, medium-fine flecking	Medium-large, open	IR: ZYMV / WMV / PRSV. Widely adapted, plants, uniform, glossy, cylindrical fruits.
<b>Fiesta F1</b>	Zucchini	45	Cylindrical	7 x 2"	Very dark green, very low, fine flecking	Medium-large, open	Spineless, for easy harvest and little fruit damage. High yield potential.
<b>Summer Surprise Mix F1</b>	Mix	45-48	Cylindrical	5-8 x 1-2"	Various colors and textures	Large, open	Grey, Green, and round zucchini types together.
<b>Symphony F1</b>	Zucchini	45	Cylindrical	7 x 2"	Medium-dark green, fine flecking	Large, open	IR: ZYMV / WMV. Widely adapted plants. Early and steady yields.
<b>Triumph F1</b>	Zucchini	44	Cylindrical	7 x 2"	Medium-dark green	Open, semi upright	IR: ZYMV, WMV, PRSV, Px. Open plant architecture for easier harvesting. Reduced spines.

Disease terminology: IR = Intermediate Resistance.

Disease code: PRSV - Papaya Ringspot spot, Px - Powdery mildew, Sf - Powdery mildew, WMV - Watermelon mosaic, ZYMV - Zucchini yellow mosaic.



### KURIHOMARE *Kabocha*

Kurihomare's bright yellow flesh has sweet, 'nutty' flavor and melt-in-your-mouth texture. Fruits are great just brushed with oil and baked, but also work well for Tempura and soups. The large (4.5-5.5 lb.) Kabocha-type winter squash have a glossy green exterior and set well on vigorous vines, even in cold conditions. Kurihomare produces high yields in about 100 days from direct seed.



### SWEET DUMPLING *Dumpling*

Sweet Dumpling is a beautiful squash that can be used for both cooking and ornamental purposes. The small, 8-10 oz. fruits are round with high shoulders, with dark green stripes atop a creamy background. The light yellow interior flesh has a smooth texture with a sweet and delicate flavor. The small fruit size is ideal for two servings by simply slicing in half and roasting.



### PRIMAVERA *Spaghetti*

Primavera is a high-yielding, hybrid vegetable spaghetti squash. It has similar size (2.5-3 pounds) 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. Matures in about 90 days from direct seed.



### TIVOLI *Spaghetti*

This AAS Winner is the first bush-plant spaghetti squash. Tivoli has a small bush habit that offers high yield potential per plant. Fruits are large and oval, weighing about 4-5 pounds. Creamy flesh is very easy to shred with a fork after roasting. Like other bush-habit winter squash, it may produce short vines after the initial fruit set.



### VEGETABLE *Spaghetti*

Vegetable Spaghetti is a popular open-pollinated 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. Ready to harvest in 90 days.



*Evaluation by Chef Tim Wastell of Culinary Breeding Network*

Beautifully speckled skin in shades of blue and green with vibrantly orange colored, dense, "meaty", richly flavored flesh makes this unique and delicious kabocha one of the more attractive and best tasting I've cooked this year. Easy to open and navigate safely with a standard kitchen knife, this squash yielded delicious results in a variety of cooking processes. Thinly shaved skin-on "ribbons" became unique and great tasting quick pickles with nothing more than rice vinegar, water, sugar and salt. Roasting (skin on) in wedges until caramelized proved a fast, easy and delicious way to highlight the fruit's sweet and earthy flavor and pleasantly firm and unique texture. A great place to start for deeply flavored pasta filling or savory-sweet dessert applications. Basket steaming was also very successful. Prepared this way and served immediately with the addition of a simple glaze of white miso and maple syrup made a crave-able, restaurant ready plate of delicious kabocha in about 15 minutes.

## KABOCHA





**ATLAS Butternut**

Atlas offers high yields of uniformly sized and shaped fruits with long, cylindrical necks and slight bulb ends. The small ends make them easier to cut and prepare for cooking. A mid-maturing variety with light cream skin and dark orange flesh, the 5-7 lb. fruits are ready at about 110 days. Strong vines are somewhat restricted, taking up less space in the garden than full vine types.



**CERES Butternut**

We are excited to offer our newest butternut squash for those areas that need (or just prefer) early maturity! Ceres is a traditional, 3.5 – 4.5 pound butternut for the fresh market that is ready to harvest in just 90 to 95 days from direct seeding. The creamy tan exterior is very smooth with no ribbing and the interior boasts firm, solid, dark orange flesh. Ceres has a vigorous plant habit with intermediate resistance to powdery mildew: IR: Px.



**GENESIS Butternut**

Chefs rejoice! Giant Genesis squash yields more usable fruit per plant. The shiny, buff-colored fruit have a deep orange interior, measure 12-14 inches, and weigh about 5-7 pounds. The small seed cavity sits very low on the fruit increasing yield. This beauty is extra large in size with a thick, long neck with little to no ribbing. Genesis is noted for good storability, uniformity, and vigorous, strong vines with large yield potential. Disease resistance: HR: Px.



**LITTLE DIPPER Butternut**



**POLARIS Butternut**



**QUANTUM Butternut**

Variety	Days to Maturity from Direct Seed	Fruit Shape	Weight	Rind / Flesh Characteristics	Plant Habit	Uses & Remarks
<b>BUTTERNUT:</b>						
<b>Atlas F1</b>	100-110	Cylindrical	5-7 lbs	Cream / Dark orange flesh	Somewhat vigorous vine	Large, cylindrical fruits with small bulb end. HR: Px.
<b>Ceres F1</b>	90-95	Cylindrical	3 lbs	Cream and smooth / Dark orange flesh	Vigorous vine	Excellent yield. Early maturity for this class. IR: Px.
<b>Genesis F1</b>	100-110	Long cylindrical	5 lbs	Tan, smooth, very shallow to no ribbing / Orange flesh	Vigorous vine	Large, thick neck and small, low seed cavity. HR: Px.
<b>Little Dipper F1</b>	100-110	Cylindrical	2 lbs	Cream, shallow-ribbed / Orange flesh	Vigorous vine	A small/personal-sized butternut – 2 lb per fruit average. High number of fruits per vine. HR: Px.
<b>Polaris F1</b>	100-110	Cylindrical	3-5 lbs	Cream / Bright orange flesh	Vigorous vine	Medium-sized fruit that compare well against the industry standard “Waltham O.P.” Very uniform in both shape and size with high yield potential. HR: Px.
<b>Quantum F1</b>	100-110	Cylindrical	2.5-4.5 lbs	Buff-tan / Bright orange flesh	Full, very vigorous vine	Fruits have a thick neck, small seed cavity and great taste. High number of fruits per plant. HR: Px.
<b>Zodiac F1</b>	100-110	Elongated	4-6 lbs	Buff-tan / Bright orange flesh	Vigorous vine	Unique elongated shape makes it easier to peel and chop. HR: Px.
<b>SPAGHETTI:</b>						
<b>Primavera F1</b>	90	Oval	2.5-3 lbs	Canary yellow / Creamy yellow flesh	Restricted vine	High-yielding hybrid. Excellent uniformity in size and shape.
<b>Tivoli F1</b>	98	Oval	4-5 lbs	Light creamy yellow / Pale creamy flesh	Vigorous bush, may have a few short vines	Unique, space saving bush plant habit; AAS Winner.
<b>Vegetable Spaghetti OP</b>	90	Long oval	2.5-3 lbs	Canary yellow / Creamy yellow flesh	Vigorous vine	The original open-pollinated spaghetti squash introduced to America by Sakata. High quality strain.
<b>SPECIALTY:</b>						
<b>Kurihomare F1</b>	100	Oblate	4.5-5.5 lbs	Dark green / Yellow flesh	Vigorous vine	Kabocha-type. Kurihomare produces high yields of fruit with superior flesh texture and flavor.
<b>Sweet Dumpling OP</b>	82	Round blocky with high shoulders	8-10 oz	Dark green stripes on cream background / Light yellow flesh	Vigorous, multi-branched vine	Dumpling-type with delicate flavor; highly ornamental. Convenient fruit size. High quality strain.

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





**RUBY FRESH** Swiss Chard

Ruby Fresh brings color and crunch to your spring mix! It has bright red petioles with well-defined veination on the deep green, round/oval, slightly wavy leaves. Plants are uniform, bolt-tolerant, upright and grow at a moderate rate, maturing to baby size in about 25-35 days. Ruby Fresh thrives outdoors or in greenhouse conditions.



**CELEBRATION** Swiss Chard

Celebration is a multi-colored chard. It is not a mix of different varieties, thus it exhibits highly uniform plants with dark green, glossy leaves and vibrant, multi-colored petioles. Celebration produces a high percentage of red, pink, yellow and orange stalks, with a small percentage of whites. Celebration is a great variety for fresh market growers, home gardeners and specialty markets.



**FIRE FRESH** Swiss Chard

Bred especially for baby leaf, Fire Fresh has bright red stems (petioles) that add bold color to greens mixes. The vivid green, crunchy leaves are round to oval and smooth, developing a slight texture as they age. Fast-growing plants have an upright habit that keeps the leaves clean for harvest. Fire Fresh is flexible, harvest at baby size or let grow and harvest at a more mature stage. Fire Fresh has high resistance to cercospora leaf spot and intermediate resistance to downy mildew race 1.



**PEPPERMINT** Swiss Chard

Peppermint is in a class by itself. Its white petioles with pink stripes that form from bottom to top create a visual pop that will catch any eye. Plants have glossy, dark green, savoy leaves and show very high bolt tolerance. Peppermint is a perfect vegetable variety for fresh markets, home gardens and specialty markets and for adding to ornamental seed offerings in seed packet and plant programs. Pair with rose snapdragons and white pansies for a highly ornamental combination. U.S. PVP No. 201100151.



**RHUBARB** Swiss Chard

Rhubarb is a standard in red Swiss chard varieties. Our consistent, high quality strain produces rich, dark red petioles and dark green, savoy leaves. It has an upright plant habit for ease of harvesting and a moderate bolt tolerance. It is well suited for baby leaf, fresh market, and home gardens. Plants are large and robust.



### ELDORADO Swiss Chard

Eldorado is a bold, beautiful variety. It has unique, yellow-golden petioles paired with smooth, green leaves making it attractive for baby leaf, fresh market growers and home gardeners. Eldorado has an upright plant habit and a high bolt tolerance.

### FORDHOOK GIANT Swiss Chard

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.

### SILVERADO Swiss Chard

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

Variety	Days to Maturity from Direct Seed	Petiole Color	Leaf Type	Uses & Remarks
<b>Celebration</b>	58-63 mature leaf	Multi: Red, yellow, pink, orange & white	Dark green, glossy, semi-savoy	Uniform plants with high percentage of bright colors and few whites. Ideal for specialty markets or as an ornamental. Very high bolt resistance.
<b>Eldorado</b>	20-27 baby leaf 55-60 mature leaf	Bright yellow gold	Medium-dark green, smooth to semi-savoy	Attractive glossy sheen to leaves, with strong stem and vein contrast. Excellent bolt resistance.
<b>Fire Fresh F1</b>	25-35 baby leaf	Bright red	Medium-dark green, smooth and slightly wavy, oval	Bred specifically for baby leaf. HR: Cb, IR: Pfb.
<b>Fordhook Giant</b>	55-60 mature	White	Dark green, semi-savoy	Classic home garden favorite. Leaves are deep green, stems are white. Well suited for warmer weather. Great flavor. Very high bolt resistance.
<b>Peppermint</b>	58-63 mature leaf	White, Striped Pink	Dark green, glossy, savoy	Beautiful petioles are white with pink stripes. An ideal vegetable or ornamental addition for home gardeners and specialty markets.
<b>Rhubarb</b>	20-27 baby leaf 55-60 mature leaf	Dark red	Very dark green, savoy	Fine quality strain for home garden and farm markets. Moderate bolt resistance. <i>Organic and non-organic seed available.</i>
<b>Ruby Fresh F1</b>	25-35 baby leaf	Bright red	Dark green, slightly wavy, round oval	Refined, uniform, strong growing baby leaf choice for salad mixes.
<b>Silverado</b>	25-30 baby leaf 60+ mature leaf	White	Dark green, glossy, savoy	Compact, slow bolting plants with a good flavor. Ideal for containers and small spaces. Very high bolt resistance.

Disease terminology: HR = High resistance, IR = Intermediate resistance.  
Disease code: Cb - Cercospora leaf spot, Pfb = Downy mildew.





## LITTLE BIRDY SERIES

A must have, O.P., ornamental edible tomato series for every home garden and container plant program. Very compact, well-branching plants provide good cover to exceptionally high yields of 1 inch round fruits. The excellent tasting cherry tomatoes mature super early (about 55 days from transplant).

Suitable for sales in 4-6 inch pots or in hanging baskets and mixed patio pots. For a colorful variety offering, include three plants per pot or basket, one each of the series: **Red Robin**, **Rosy Finch**, and **Yellow Canary**. Or mix all three colors in a seed packet for the ideal small space garden planting.



**RED ROBIN**  
Bright Red



**ROSY FINCH**  
Deep Rosy-Pink



**YELLOW CANARY**  
Golden Yellow





### SWEET MILLION Cherry

Sweet Million is a well-established favorite in the home garden and roadside markets. It boasts a balanced, superb, classic cherry tomato flavor, and an early maturity (60 to 62 days from transplant). Fruits are very uniform, with an average weight of .5 ounce (10 to 15 grams). Indeterminate plants are easy to grow, have strong vigor and produce high yields of firm fruit that show good crack resistance.



### BRAVEHEART Cherry

Braveheart Hybrid is our favorite cherry tomato! The rich red, approximately .5 ounce (12-16 grams) cherry tomatoes grow prolifically on well-behaved, indeterminate short-internode plants. Fruits are sweet and juicy but with a bold, rich tomato flavor reminiscent of big slicers. Although the skin is thin, the fruits resist cracking well. They also ripen quickly and uniformly, then continue for harvests throughout the season. Expect your first harvest about 60-65 days from transplant.



### SWEET GOLD Cherry

Sweet Gold is an excellent companion to the red-fruited Sweet Million. It is also a popular home garden favorite for its flavor and performance. Vigorous, indeterminate plants are very high yielding, producing single and double clusters of early-maturing fruits in about 62 to 65 days from transplant. The attractive, bright yellow fruits weigh around .5 ounces (10 to 15 grams) and boast a full, delicious flavor.



### SWEET TREATS Cherry

Sweet Treats is a unique, large-fruited cherry tomato with multiple market options. Fruits are globe-shaped, have a beautiful deep pink tone, smooth texture and an excellent rich flavor. Fruits weigh around .75 to 1 ounce (20 to 30 grams) and show good crack resistance. Vigorous plants have very good disease resistance and produce high yields of fruits that mature in about 65 to 67 days from transplant.





**GOLD SPARK** Grape

Gold Spark grape tomato will grab your attention with eye-catching color, sweet flavor, steady yields, and crack resistance. This great tasting yellow grape has high yield potential and consistent sweetness (brix) throughout the season. Fruits weigh about .5 ounces (12-14 grams) and have excellent shelf life. The widely adapted indeterminate plants have strong vigor with medium height. Matures about 65-70 days from transplant.



**BELLINI** Cocktail

Bellini is an early maturing (65 days), uniquely large-fruited, light orange cocktail tomato with great flavor. Indeterminate plants produce clusters of 8-12 smooth, deep oblate shaped, 1.5 ounce (40-50 gram) fruit with a rich, low acid flavor and good sweetness. Plants have potential for high yields of firm, crack resistant fruit with a satisfying interior texture. Bellini is ideal for home garden, roadside, and specialized retail applications.



**MINGLE MIX** Grape

Get ready to Mingle! You asked for more home garden grape tomato options and we aim to please. Mingle is a mix of our favorite grape tomatoes in candy hue colors for the home garden. The mix includes indeterminate plants that produce gold, red, yellow and chocolate fruit, all in about 65-70 days. The plants are high yielding and set continuously throughout your season. The fruit are sweet but crack resistant and all weigh about .5 ounce. We suggest gardeners grow 6 plants or more for the best color range.



**RUBY CRUSH** Grape

Ruby Crush is our favorite determinate grape variety. Plant in either patio containers or the field, where it shines with clusters of candy red, sugary-acid balanced fruits that resist cracking. Compact Ruby Crush plants are strong and have good leaf cover to prevent sun damage and can be grown with minimal support (2 foot high fence trellising or standard tomato cage). Oval fruits weigh about .5 - .75 ounces (12-17 grams) and mature in 65-70 days from transplant.



**SWEET HEARTS** Grape

Sweet Hearts is a leading grape tomato that is brilliant red, has excellent flavor, shelf life and resistance to cracking. Indeterminate plants have good vigor and produce early (60 days), 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.

Variety	Plant Type	Relative Maturity / Days to Maturity from Transplant	Fruit Characteristics	Disease Resistance	Uses & Remarks
<b>CHERRY:</b>					
<b>Braveheart F1</b>	Indeterminate - short-internode	Early / 60-65	Round, uniform, bright red, .5 oz (12-16g)	HR: Fol: 1 / For / Pf: A-E / ToMV: 0, 1 \ IR: Sbl / Sl / Ss	Short internodes, great yield potential, excellent flavor.
<i>Little Birdy Series:</i> <b>Red Robin</b>	Compact determinate	Very early / 55	Round, red, .5-.75 oz (15-20g)	-	Very compact plant suitable for small patio pots and hanging baskets. High yields of excellent-tasting fruits.
<i>Little Birdy Series:</i> <b>Rosy Finch</b>	Compact Determinate	Very early / 55	Round, deep pink, .5-.75 oz (15-20g)	-	For a colorful variety offering, include 3 plants per pot or basket.
<i>Little Birdy Series:</i> <b>Yellow Canary</b>	Compact Determinate	Very early / 55	Round, canary yellow, .5-.75 oz (15-20g)	-	Well-branching plants provide good cover to exceptionally high yields.
<b>Sweet Gold F1</b>	Indeterminate	Early / 62-65	Small round, yellow, .5 oz (10-15g)	HR: Fol: 1 / ToMV: 0, 1	Full flavored, small yellow fruits. Good companion to Sweet Million.
<b>Sweet Million F1</b>	Indeterminate	Early / 60-62	Small round, red, .5 oz (10-15g)	HR: Fol: 1 / ToMV: 0, 1	Well-established home garden variety. Full-flavored, classic cherry tomato. Good crack resistance.
<b>Sweet Treats F1</b>	Indeterminate	Mid-early / 65-67	Globe, dark pink .75-1 oz (20-30g)	HR: Fol: 1, 2 / Pf: A-E / ToMV: 0, 1 \ IR: For / Sbl / Sl / Ss	Unique, large, pink fruits with excellent flavor. A quality specialty choice for all markets.
<b>COCKTAIL:</b>					
<b>Bellini F1</b>	Indeterminate	Mid-early / 65	Large oblate, orange, 1.5 oz (40-50g)	HR: Fol: 1, 2 / Pf: A-E / ToMV: 0-2 / Va: 1 / Vd: 1 \ IR: Ma / Mi / Mj / Sbl / Sl / Ss	Like a super-sized cherry, great for appetizers! Widely adapted and easy to grow. Unique orange color and size, with great flavor.
<b>GRAPE:</b>					
<b>Gold Spark F1</b>	Indeterminate	Mid-early / 65-70	Oval barrel-shape, golden yellow, .5 oz (12-14g)	HR: Pf: A-E / ToMV: 0-2 \ IR: Sbl / Sl / Ss	consistently high Brix and fruit set; excellent shelf life; low-tech CEA or field.
<b>Mingle Mix F1</b>	Indeterminate	Mid-early / 65-70	Elongated round-oval, .5 oz (12-16g)	-	Red, Yellow, Gold and chocolate - Sweet, crack resistant fruit is a color mix with yellow, red, chocolate and golden-orange.
<b>Ruby Crush F1</b>	Determinate	Mid-early / 65-70	Blocky, round, oval, red, .5-.75 oz (12-17g)	HR: Fol: 1, 2 / For / ToMV: 0-2 \ IR: Sbl / Sl / Ss	Deep red fruit that are very smooth, uniform & firm with a good flavor profile for a determinate grape.
<b>Sweet Hearts F1</b>	Indeterminate	Early / 60	Elongated oval, brilliant dark red	HR: Fol: 1, 2 / For / ToMV: 0-2 \ IR: Sbl / Sl / Ss	Excellent flavor, crack resistance and after-harvest shelf life. Great disease package.

Disease terminology: HR = High Resistance, IR = Intermediate Resistance.

Disease code: Fol - Fusarium wilt, For: Fusarium crown & root rot, Ma/Mi/Mj - Root knot nematode, Pf - Leaf mold, Sbl/Sl/Ss - Gray leaf spot, ToMV - Tomato mosaic, Va/Vd - Verticillium wilt.

^ - Soil temperatures above 80.6 °F (27°C) and other stress conditions may cause Mi resistance to break.

The term 'umami' was first coined in Japan in 1908 and has since become a coveted flavor profile. Described as 'brothy' or 'meaty,' it embodies a unique blend of savory tastes. Examples of food with umami flavor are cured meats, cheeses, soy sauce, mushrooms and tomatoes.

With most tomatoes sacrificing flavor to meet convenience demand, consumers crave that 'real' tomato taste. Former Sakata Japan President, Mr. Takahashi, spearheaded the effort toward achieving the sought-after flavor profile in Sakata tomatoes. For a burst of umami flavor, try our Bellini, Braveheart or Sweet Treats!

# Mastering Umami Flavor

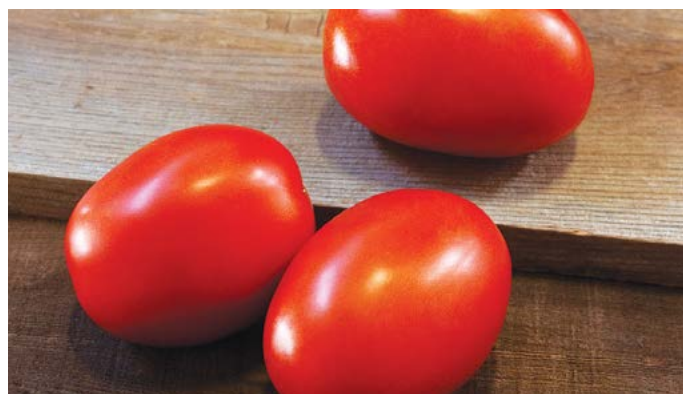






**SHELBY Roma**

Bring on the summer swelter! Shelby's extensive disease package helps to ensure a great harvest under all kinds of pressure. The extra-large fruit are firm and bright red, while the determinate plants are hardy, compact, early, and yield well even in the toughest summer conditions. Shelby fruits are San Marzano type- reminiscent of an elongated barrel-shape and store well before and after harvest. Matures about 72-75 days from transplant. HR: Aal / Fol: 1, 2 / For / Pst: 0 / Va: 1 / Vd: 1 \ \ IR: TSWV / TYLCV: Is



**CEDRO Roma**

Cedro saladette wowed our trial visitors with yield and color! Sliced or diced, Cedro's bright red color and pleasant texture will make it a star in the kitchen as well. The large to extra-large (4-6 ounce), oval, uniform, fruits grow in clusters on compact indeterminate plants. Cedro is well-adapted, performing under varying summer conditions. Matures 75-80 days from transplant.

**DAYTONA Roma**

Compact determinate plants set high yields in just about 72-75 days from transplant. Daytona is a widely adapted variety with excellent quality extra-large, smooth fruit that hold well on the plant and after harvest. Fruit are firm and flavorful for slicing and dicing. Particularly suited to areas experiencing disease pressure from tomato yellow leaf curl.



**INCA Roma**

One of our most highly adaptable tomato varieties, Inca may be grown in multiple climates. It is a remarkably high yielding plant that also boasts extra-large fruits that are thick walled and firm, excellent for use in salsa or bruschetta. Inca has a strong, concentrated, and early fruit set, but also has the ability to continuously fruit further into the season. It is a moderately vigorous determinate variety that matures in 65-70 days and possesses resistances to multiple, destructive diseases.



**INVINCIBLE Roma**

Invincible saladette stands up to pesky summer heat, rain and late blight! Invincible matures early and continues to set uniform fruit throughout the season on vigorous, mid-size, determinate plants. The leafy habit protects the deep red, oval shaped, medium-sized, smooth fruit. Plants are easy to manage and grow, maturing in about 65-70 days from transplant.



### KUZCO Roma

Blazing new trails with fiery red fruit and an excellent disease package, Kuzco will surely be a medalist in the garden. While it performs especially well in the heat, Kuzco is also well-adapted to other climates. Setting heavy, early yields, this 63-68 day determinate variety is ideal for an outstanding start to the canning season. The fruits are large and firm providing for good shelf life. Having an exceptional disease resistance package, it will ensure a longer harvest season.

### MARIANA Roma

Mariana is popular in many U.S., Mexico and Central American markets due to its reliability, versatility and excellent quality. It is well suited for mature green and vine ripe harvesting and performs well on ground and staked culture. The determinate 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. Matures 72-74 days from transplant.



### OPTIMAX Roma

Optimax is a large to extra-large fruited indeterminate red roma with meaty yet juicy fruit that have thin skin and a small core. Optimax peels easily and has ideal color and texture for salsa, soup and sauce. Plants are very productive, have wide adaptability and mid-season maturity (80-85 days) with good disease resistance. Optimax performs well when growing from warm to cool conditions and for longer growing seasons.

### SUPREMO Roma

Supremo matures quickly (68-70 days) even in hot summer weather. The large, tasty, blocky fruit are wonderful fresh, and easy to peel for cooking. This productive hybrid sets concentrated yields of 5-6 ounce fruit on compact, determinate, disease-resistant plants. For those in warmer climates, Supremo sets fruit quite well in especially hot weather.

### TACHI Roma

Tachi is a productive variety that produces extra-large fruit with excellent quality. The determinate plants are strong, medium in size and set well in the heat. The fruits are firm and have good shelf life at maturity, about 74-76 days from transplant. As an additional benefit, Tachi offers resistances to both root knot and TSWV.





**ROADSTER Slicer**

This candy apple red beauty will turn heads! Roadster has the perfect combination of flavor, early maturity and extra-large (8-12 ounce) fruit size. Fruits have smooth shoulders, are globe-shaped and glossy. Medium-sized, disease resistant, container friendly determinate plants race to maturity in about 65-70 days from transplant. Roadster is quickly gaining a reputation for exceptional taste and rich red color inside and out.



**BELLA ROSA Slicer**

This tasty, high quality, determinate slicer features a combination of very good heat setting ability and intermediate resistance to TSWV. The large, smooth-shouldered fruit have deep red color and good flavor. Medium-tall plants produce high yields in a concentrated set at about 74 days with little to no need for pruning. Especially well suited for the Eastern United States.



**CAMARO Slicer**

Camaro races through the heat when others stall. The compact determinate plants set high yields of deep red, 8 to 10 ounce, glossy, globe-shaped fruit throughout the summer, starting 72-75 days from transplant. Camaro is a good fit for large containers or raised beds and can be transplanted later in the summer to extend your harvest into fall; no pruning is required. Plants have good cover and disease resistance.



**CHARGER Slicer**

Charger fruits are extra-large, richly colored, deep red with good flavor. A high yielder, it produces deep oblate-shaped fruits with smooth shoulders on medium-tall plants. Shows wide adaptability, and good disease resistance, and shows good results in high tunnel production. Our largest fruited variety. Matures 72 days from transplant.



**FIREBIRD Slicer**

Firebird thrives in hot summer conditions with an extensive disease package and hot set capability. Plants are healthy with good leaf coverage. The extra-large, high quality, flat/globe shaped fruit set in clusters. Firebird is well adapted and high yielding. The plant is sturdy and well balanced for easy management and harvesting. Expect maturity in about 75 days from transplant. HR: Aal / Fol: 1-3 / Va: 1 / Vd: 1 \\ IR: Sbl / Sl / Ss / TSWV / TYLCV: Is\*.



### GRAND MARSHALL Slicer

Grand Marshall parades through hot weather with good flavor and texture. The deep red fruit have smooth shoulders that grow in clusters of 3-5 fruit, perfect for vine-ripe harvesting. The vigorous determinate plants set high yields of extra-large, firm, deep oblate-shaped fruit. Grand Marshal has medium-sized, disease resistant plants that perform well under stressful conditions and when bacterial pressure is present. Matures 78 days from transplant.



### LAGUNA RED Slicer

Laguna Red is a high-quality, determinate salad variety, especially well-suited for growing in cooler seasons. Fruit is an attractive red, firm, and smooth shouldered, and has good balanced flavor. An ideal choice for farm market growers. The plants are medium tall and benefit from light pruning if desired. Days to maturity from transplant: 68-72.



### RAMBLER Slicer

Rambler is an adaptable, high-quality determinate salad variety featuring high yield potential of jumbo and extra-large fruit. Fruit size, color, quality, and firmness are all excellent. The plants are strong, medium compact and have good cover. Rambler is widely adapted and can be produced using ground staking or high tunnel culture in a variety of regions. Days to maturity from transplant: 68-72.



### RED PRIDE Slicer

This short-stake tomato variety is a consistent performer, and our best tasting determinate red slicer. It produces excellent, rich flavored, large, deep oblate fruit with a good blossom end and strong red color. Red Pride has a relatively late maturity (about 78 days from transplant) on strong, vigorous plants with good foliar disease resistance.



### RED SNAPPER Slicer

Red Snapper is easy to grow, thriving in most summer conditions and under many types of disease pressure. The plants are widely adapted and set well in the heat. Fruit are an attractive red color, smooth, glossy, firm and have a good flavor and shelf-life. Plants mature about 70 days from transplant, are medium tall, and benefit from pruning.



### THUNDERBIRD Slicer

Thunderbird is a vigorous hot set variety that thrives under warm and wet conditions. Yield potential is high on strong manageable plants that have a good balance of cover and ease of harvest. Extra-large, very firm, good-flavored fruit have a deep red interior color as part of Sakata's high color range. Thunderbird is well suited for farm markets, plant programs, and home gardeners alike. Days to maturity from transplant: 72-75.





**RUBEE DAWN Slicer**

RuBee Dawn will get your garden year off to a very early start - maturing just 57 days from transplant. The flavor is a taste of summer - just what you dreamed of all winter, a wonderful balance of sweet with a touch of tartness and a hint floral overtone. The large (8-12 ounce) fruit have a deep oblate shape with slightly curvy shoulders and a smooth, deep red exterior. RuBee Dawn does not disappoint in the kitchen - slices are firm and flavorful. These 3-4 foot plants are productive and disease resistant.

**RUBEE GODDESS Slicer**

RuBee Goddess combines beauty and strength with gorgeous color, juicy/mild/balanced flavor, and perfect texture. The excellent disease package includes resistance to late blight. The large (8-10 oz.), smooth fruits have green shoulders, good firmness and thick walls for perfect slices, uniform flattened globe shape and deep red internal color. The compact to mid-sized indeterminate plants are high yielding and uniform. RuBee Goddess was the top performer when all traits were considered in our trials.



**RUBEE PLUS Slicer**

RuBee Plus is full of juicy flavor, eye-popping color, and perfect texture. Globe-shaped fruits are deep red inside and out, smooth shouldered and uniform maturing. RuBee Plus was built for slicing - the meaty walls and free-form pockets of tasty gel help keep the slices together during transport to your burger. The indeterminate, disease tolerant plants mature to about 4-5 feet and set 8-10-ounce fruit in cluster of 2-3.

**RUBEE PRIZE Slicer**

RuBee Prize is your best bet at the next county fair! Expect loads of very large (9-10 ounce) fruit with vibrant color and show stopping flavor in just 65 days! The compact indeterminate plants are leafy with good fruit cover, short internodes, are disease resistant and super productive. The deep red, juicy, almost seedless, slightly flattened globe-shaped fruit have curvy shoulders and consistently won the flavor category in our trials. The 4 foot plants set lots of uniform fruit in clusters of 2-4.

Variety	Vine Type	Relative Maturity / Days to Maturity from Transplant	Fruit Characteristics	Disease Resistance	Uses & Remarks
<b>SLICER - INDETERMINATE:</b>					
<b>RuBee Dawn</b>	Indeterminate	Very early / 57-60	Deep oblate, large to extra-large, deep rich red	HR: Aal / Fol: 1, 2 / For / Pf: A-E / ToMV: 0-2 / Va: 1 / Vd: 1 \ IR: Ma / Mi / Mj / Sbl / Sl / Ss	Compact indeterminate with every early fruiting; sweet, tart, richly colored fruits.
<b>RuBee Goddess</b>	Indeterminate	60-65	Deep globe, large, dark red	HR: Aal / Fol: 1, 2 / For / Pf: A-E / ToMV: 0, 1 / Va: 1 / Vd: 1 \ IR: Ma / Mi / Mj / Pi	Excellent overall performance, yields, flavor and adaptability.
<b>RuBee Plus</b>	Indeterminate	Early / 65-70	Round globe, large, scarlet red	HR: Aal / Fol: 1, 2 / For / Pf: A-E / ToMV: 0, 1 / Va: 1 / Vd: 1 \ IR: Ma / Mi / Mj	Large fruits with exceptional flavor, texture, and composition.
<b>RuBee Prize</b>	Indeterminate	Early / 65	Flattened globe, extra-large, smooth, deep scarlet red	HR: Aal / Fol: 1, 2 / For / Pf: A-E / ToMV: 0, 1 / Va: 1 / Vd: 1 \ IR: Ma / Mi / Mj	Compact plants, large yields of extra-large fruits, high flavor.

Variety	Vine Type	Relative Maturity / Days to Maturity from Transplant	Fruit Characteristics	Disease Resistance	Uses & Remarks
<b>ROMA / SALADETTE:</b>					
<b>Cedro F1</b>	Compact Indeterminate	Mid / 75-80	Oval, bright red	HR: Aal/Fol:1-3/ToMV:0-2/Va:1/Vd:1	Early, widely adapted; great heat set; excellent color.
<b>Daytona F1</b>	Determinate	Mid-early / 72-75	Elongated blocky, uniform, firm, red	HR: Aal / Fol: 1, 2 / Va: 1 / Vd: 1, IR: Ma / Mi / Mj / TYLCV: Is*	Widely adapted. Particularly well suited for TYLCV: Is* pressure slots, great fruit quality.
<b>Inca F1</b>	Determinate	Early-mid / 65-70	Blocky, elongated and firm	HR: Aal / Fol: 1-3 / Pst: 0 / Va: 1 / Vd: 1, IR: Ma / Mi / Mj / TSWV	Very heavy early, concentrated set with continuous set. Highly adaptable.
<b>Invincible F1</b>	Determinate	Early / 65-70	Rounded oval, deep red	HR: Fol:1,2/ToMV:0-2/Va:1/Vd:1 \\ IR: Pi/Rs/Ss/Sbl/Sl/TYLCV:Is*	Sets in extreme conditions; withstands late blight.
<b>Kuzco F1</b>	Determinate	Early / 63-68	Extra large, blocky	HR: Aal / Fol: 1-3 / Pst: 0 / ToANV / Va: 1 / Vd: 1 \\ IR: Sbl / Sl / Ss / TSWV	Early, high-yielding and well-adapted variety. Excellent disease package.
<b>Mariana F1</b>	Determinate	Mid-early / 72-74	Large, elongated barrel	HR: Aal / Fol: 1, 2 / Va: 1 / Vd: 1 \\ IR: Ma / Mi / Mj / Sbl / Sl / Ss	Excellent performer under hot set conditions.
<b>Optimax F1</b>	Indeterminate	Mid-late / 80-85	Elongated oval, large, uniform, bright red	HR: Aal / Fol: 1, 2 / Pst: 0 / Va: 1 / Vd: 1	Ideal for warm or cool season. Indeterminate plant for long production cycles.
<b>Shelby F1</b>	Determinate	Mid-early / 72-75	Elongated barrel, extra-large, bright red	HR: Aal/Fol:1,2/For/Pst:0/Va:1/Vd:1 \\ IR: TSWV/TYLCV:Is	Old-fashioned elongated barrel-shape; performs well in heat; extensive disease package.
<b>Supremo F1</b>	Determinate	Early / 68-70	Elongated blocky, large to extra-large, red	HR: Fol: 1-3 / Pst: 0 / Va: 1 / Vd: 1 \\ IR: Ma / Mi / Mj / TSWV	Early, large production of quality fruits on compact plants. Excellent disease package.
<b>Tachi F1</b>	Determinate	Mid / 74-76	Elongated blocky, extra-large, dark red	HR: Aal / Fol: 1, 2 / Mi^ / Vd: 1 \\ IR: TSWV	High yields on compact plants. Sets well in heat.
<b>SLICER - DETERMINATE:</b>					
<b>Bella Rosa F1</b>	Determinate	Mid / 74	Oblate, large to extra-large, uniform, red	HR: Aal / Fol: 1, 2 / Va: 1 / Vd: 1 \\ IR: Sbl / Sl / Ss / TSWV	Very good heat setting ability. Well suited for areas with TSWV disease pressure. Large, good flavored fruits.
<b>Camaro F1</b>	Determinate	Mid / 72-75	Globe, extra-large, uniform, red	HR: Aal / Fol: 1-3 / Va: 1 / Vd: 1 \\ IR: Sbl / Sl / Ss / TYLCV: Is	Very good performance in hot set slots with extra-large fruit. Controlled plant habit works well in large containers.
<b>Charger F1</b>	Determinate	Early / 72	Oblate, extra-large, firm, red	HR: Aal / Fol: 1-3 / Va: 1 / Vd: 1 \\ IR: Sbl / Sl / Ss / TYLCV: Is*	Early maturity of extra-large fruits with good flavor. Widely adaptable.
<b>Firebird F1</b>	Determinate	Mid / 75	Large globe to flat globe	HR: Aal / Fol: 1-3 / Va: 1 / Vd: 1 \\ IR: Sbl / Sl / Ss / TSWV / TYLCV: Is*	Excellent hot set capability. Plants have good leaf coverage. Well-adapted.
<b>Grand Marshall F1</b>	Determinate	Mid-late / 78	Deep oblate, large to extra-large, red	HR: Aal/Fol:1,2/Va:1/Vd:1 \\ IR: Ss/Sbl/Sl/TYLCV:Is	Main season heat set, strong performance under bacteria pressure.
<b>Laguna Red F1</b>	Determinate	Early / 68-72	Large, deep oblate, scarlet red	HR: Aal / Fol: 1, 2 / For / ToMV: 0-2 / Va: 1 / Vd: 1 \\ IR: Ss / Sbl / Sl / ToBRFV / TYLCV: Is	Smooth-shouldered fruit that are very firm. Great variety for cool season production.
<b>Rambler F1</b>	Determinate	Early / 68-72	Large-jumbo and firm	HR: Aal / Fol: 1-3 / For / Va: 1 / Vd: 1 \\ IR: Sbl / Sl / Ss / TSWV	Adaptable with a high yield potential of very large fruits.
<b>Red Pride F1</b>	Determinate	Mid-late / 78	Deep oblate, large to extra-large, red	HR: Aal / Fol: 1, 2 / Va: 1 / Vd: 1 \\ IR: Sbl / Sl / Ss	Strong plants with late maturity and good general foliar disease resistance. Great home garden flavor.
<b>Red Snapper F1</b>	Determinate	Early to mid-early / 70-75	Deep oblate globe, large to extra-large, deep scarlet red	HR: Aal / Fol: 1, 2 / Va: 1 / Vd: 1 \\ IR: Sbl / Sl / Ss / TSWV / TYLCV: Is*	Widely adapted across multiple regions and seasonal slots.
<b>Roadster F1</b>	Determinate	Very early / 65-70	Smooth globe, extra-large, glossy, rich red	HR: Aal / Fol: 1-3 / For / Va: 1 / Vd: 1 \\ IR: Ss / Sbl / Sl / ToBRFV / TSWV	Perfect combination of flavor, color, early maturity and extra-large fruit size.
<b>Thunderbird F1</b>	Determinate	Mid / 72-75	Extra large, firm with good shelf life	HR: Aal / Fol: 1-3 / For / Va: 1 / Vd: 1 \\ IR: Sbl / Sl / Ss / TYLCV: Is	A great hot set variety that yields extra large fruits that are firm.

Disease terminology: HR = High Resistance, IR = Intermediate Resistance.

Disease code:

Aal - *Alternaria stem canker*

Fol - *Fusarium wilt*

For - *Fusarium crown and root rot*

Ma - *Root knot*

Mj - *Root knot sp. javanica*

Mi - *Root knot sp. incognita*

Pf - *Leaf mold*

Pi - *Late blight*

Pst - *Bacterial speck*

Sbl - *Gray leaf spot (S. botryosum f. sp. lycopersici)*

Sl - *Gray leaf spot (S. lycopersici)*

Ss - *Gray leaf spot (S. solani)*

ToANV - *Tomato Apex Necrosis*

ToBRFV - *Brown rugose*

ToMV - *Tomato mosaic*

TSWV - *Tomato spotted wilt*

TYLCV - *Tomato yellow leaf curl*

Va - *Verticillium wilt (V. albo-atrum)*

Vd - *Verticillium wilt (V. dahliae)*

\* - TYLCV: Is = *Tomato yellow leaf curl virus: Israel strain.*

\* - *This hybrid was developed in cooperation with the University of Florida's Food and Agricultural Sciences tomato breeding program.*

^ - *Soil temperatures above 80.6 °F (27°C) and other stress conditions may cause Mi resistance to break.*





### WHITE LADY

#### Turnip

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



### ALAMO

#### Turnip



### ALL TOP

#### Turnip



### ROYAL CROWN

#### Turnip



### SOUTHERN GREEN

#### Turnip



### TOPPER

#### Turnip

Variety	Days to Maturity from Direct Seed	Root Characteristics	Leaf Characteristics	Uses & Remarks
<b>GREENS:</b>				
Alamo F1	33	Tapered; No usable root for harvest	Broad, smooth	Excellent yields and vigorous regrowth ability. Moderate bolt resistance.
All Top F1	35	Tapered	Broad, erect, long petioles	High yielding with vigorous regrowth. Moderate bolt resistance. Develops strong root system, making it good for organic growing.
Topper F1	36	Medium-small, pale green, top shaped	Deep green, large, broad, serrated leaves	Vigorous regrowth ability for up to three additional harvests after initial cutting. Good bolt tolerance.
<b>ROOT:</b>				
Royal Crown F1	50	Large, slightly flat round, purple top with white bottom	Small, smooth, deeply lobed, short petioles	As compared to O.P. varieties: Excellent bolt resistance. Roots grow fast but maintain high interior quality despite large size.
Southern Green	33	Small, short	Smooth, large	Has high bolt resistance and excellent regrowth for larger yields.
White Lady F1	28-35	Medium, flat round, white, 4-5"	Erect, serrated leaves	Asian-type with excellent flavored roots and greens. Tolerant to pith even at larger root sizes.



**SWEETIE PIE** Watermelon, Seeded

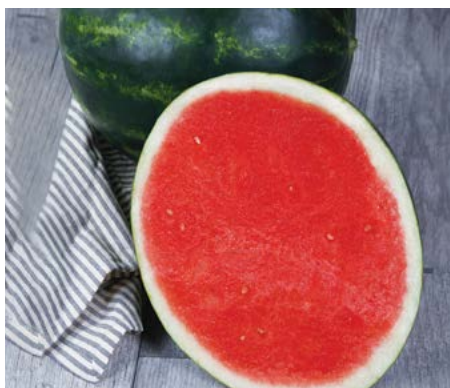
Sweetie Pie is a large 13 pound-average sugar baby-type, with knock-out sweet flavor, slightly crunchy texture and very juicy flesh! Fruit have a dark green, thin, shiny rind. Interior color is dark red and very sweet. Harvest when tendrils are dry near the stem, the bottom spot is yellow, and the fruit has a hollow sound. The convenient 'not-too-big' size and the unparalleled flavor and texture makes Sweetie Pie our personal favorite!

**BELMONT** Watermelon

Belmont is our first variety in a new generation of small-sized seedless watermelons. It is a perfect fit for the fridge at only 6-8 pounds. The deep red flesh is very sweet and juicy and has a pleasantly firm texture. Belmont features an extremely strong and vigorous vine with excellent yield potential for multiple fruits in just 90 days. For best results, use a Sakata early pollinizer when growing this variety.

**ECLIPSE** Watermelon

Eclipse may just be the perfect seedless watermelon! This 10-12-pound Icebox/Sugar Baby-type has it all—flavor, texture, color, juiciness and yield. Once you have eaten Eclipse, you will never go back! Fruits are round, heavy for their size and have dark exteriors with very faint stripes. Eclipse is early maturing at about 80 days. Be sure to plant with an early pollinizer – we recommend Wild Card Plus.

**EL CAPITAN** Watermelon

El Capitan offers the latest genetics in watermelons. Uniform, seedless, blocky-oval fruits have attractive dark Crimson Sweet type rind pattern and firm, sweet, dark red flesh that is juicy and tasty. El Capitan fruit average 16-20 pounds each and hold well in the field, after harvest and after slicing. The vigorous vines show excellent yield potential and have high resistance to Fusarium wilt races 0, 1. Patent Pending.

**MIRAMONTE** Watermelon

Miramonte is our newest Horizon series triploid watermelon, boasting exceptionally flavorful deep red, firm flesh. The rind is an attractive Crimson Sweet pattern with very dark green stripes. Fruits develop to a uniform 16-20 pound size with a solid blocky shape on vigorous vines, showing excellent yield potential. A mid- to late season variety, Miramonte matures about 90 days from sowing and holds very well in the field in case you miss a picking!

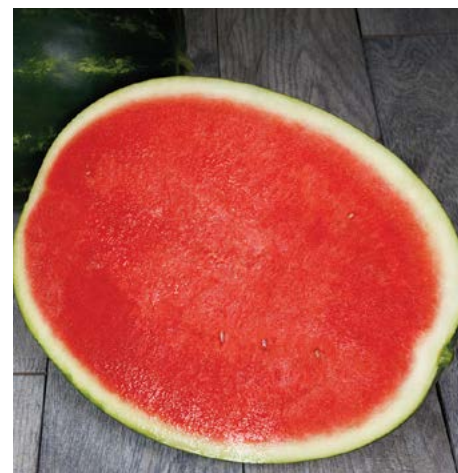
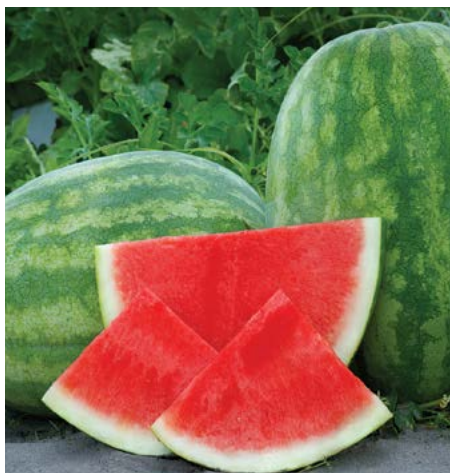
**PREAKNESS** Watermelon

Preakness is a new, true "mini" triploid watermelon perfect for entertaining, family desserts, or those with tight refrigerator space! Uniform, blocky fruits have a very dark Crimson Sweet rind pattern and firm, sweet, dark red flesh that is extra sweet and tasty. The small pip size lends to nice presentation and little waste. Vigorous vines show excellent set of uniform round oval fruits at only 4-6 lbs. each. Days to Maturity from direct seed: 75-79.



**YELLOW BUTTERCUP** Watermelon, Seedless

Known for its great eating quality, Yellow Buttercup is a bright yellow flesh seedless watermelon with crisp texture and sweet flavor. The 14-16 pound fruit are round-oval in shape and have dark green stripes on a light green background. Plant with a pollenizer. Choosing a pollenizer that we have developed, like 'Ace', has shown to provide better yield and quality results.



**SECRETARIAT** Watermelon

This beautiful, seedless watermelon represents our next generation of breeding! 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.

**SIERRA MADRE** Watermelon

Sierra Madre is part of Sakata's new collection of exceptional watermelon genetics! Sierra Madre displays uniform, blocky, 18-24 pound fruit on vigorous vines. Seedless fruit has a desirable dark Crimson Sweet rind pattern and internally show deep red, tasty, sweet, firm flesh with small pips. Sierra Madre holds well in the field and after harvest and has excellent yield and fresh-cut market potential. Patent pending.

**SIERRA NEVADA** Watermelon

Sierra Nevada is part of a new era of exciting, seedless watermelon genetics! Its features include an attractive dark Crimson Sweet rind pattern, uniform, blocky/oval fruit and vigorous vines. Benefits of this variety include excellent yield potential, extended field holding potential and firm flesh, making it a great choice for the fresh-cut use. The 17-21 pound fruits are sweet and juicy.



**ACE**  
Pollenizer

**ACE PLUS**  
Pollenizer

**WILD CARD PLUS**  
Pollenizer

Variety	Type	Days to Maturity from Transplant	Size / Shape	Flesh	Rind	Disease Resistance	Uses & Remarks
<b>SEEDLESS (TRIPLOID):</b>							
<b>Belmont F1</b>	Mini	90	6-8 lb / Round oval	Deep red	Very dark green with medium green stripes	IR:Co:1 / Fon:1	Very sweet; extremely strong vines with excellent yields.
<b>Eclipse F1</b>	Sugar Baby	80	10-12 lb / Round	Deep red	Black green, smooth	-	Small icebox size and exceptionally sweet and juicy with a great crunch.
<b>El Capitan F1</b>	Crimson Sweet	85	6-20 lb / Blocky oval	Deep red	Wide, dark green stripes on medium background	HR: Fon: 0, 1	Excellent yield potential. Deep red flesh with very small pip size.
<b>Miramonte F1</b>	Crimson Sweet	90	6-20 lb / Blocky oval	Deep red	Wide, dark green stripes on medium background	HR: Fon: 0, 1	Excellent yield potential. Deep red flesh with very small pip size.
<b>Preakness F1</b>	Mini	75-79	4-6 lb / Round oval	Dark red	Wide, dark green stripes on medium green background	-	Mini triploid with an attractive Crimson Sweet rind pattern. Fruit set of 6 and 8 count fruit.
<b>Secretariat F1</b>	Crimson Sweet	80	16-20 lb / Round oval	Bright red	Medium green with wide green stripes	-	Early maturing seedless with good setting ability in cooler weather.
<b>Sierra Madre F1</b>	Crimson Sweet	75-79	18-24 lb / Blocky, oval	Deep red	Wide, dark green stripes on medium background	HR: Fon: 0, 1	Extended shipping and field holding ability with great yield potential.
<b>Sierra Nevada F1</b>	Crimson Sweet	85	17-21 lb / Blocky	Deep red	Wide, dark green stripes on medium background	HR: Fon: 0, 1	Excellent yield potential with firm flesh. Great choice for fresh cut market.
<b>Yellow Buttercup F1</b>	Jubilee	90	14-16 lb / Round oval	Bright yellow	Dark green background with green stripes	-	Bright yellow flesh with excellent eating quality.
<b>SEEDED (DIPLOID):</b>							
<b>Sweetie Pie F1</b>	Sugar Baby	75	11-15 lb / Round	Dark red	Black green background, smooth	-	Knock-out sweet flavor, slightly crunchy texture and very juicy flesh!
<b>POLLENIZER:</b>							
<b>Ace</b>	Non-harvestable Pollinator		Round oval	Red	Light green with medium green stripes	-	Non-harvestable pollinator. Plant along with Seedless types.
<b>Ace Plus</b>	Non-harvestable Pollinator		Round oval	Red	Light green background with medium green stripes	IR: Co: 1 / Fon: 1	Very early flowering date that makes pollen available for the first female flowers of the hybrid.
<b>Wild Card Plus F1</b>	Non-harvestable Pollinator		Round oval	Yellow	Light green with medium green stripes	IR:Co:1 / Fon:1	Non-harvestable pollinator. Plant along with Seedless types. Early flowering.

Sakata highly recommends using our Ace or Wild Card Plus as pollenizers because their early and prolonged flowering matches the early full flowering of our triploids. Disease terminology: HR = High Resistance, IR = Intermediate Resistance. Disease code: Co - Anthracnose, Fon - Fusarium wilt.



## 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.

### 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 some disease symptoms or damage under heavy pest or pathogen 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 pest or pathogen 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 pest or pathogen pressure.

### Tolerance (T):

The ability of a plant variety to endure 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 pest or

pathogen. 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.

### 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.

### Product Warranty:

Sakata Seed America, Inc. (“Sakata” warrants that the seeds in the container are as described on the container or container label, 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 on the container or container label. 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. Any illustration on the container label represents only the kind of crop. 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.

<b>A</b> Arugula	8	<b>O</b> Okra	38
<b>B</b> Baby Broccoli	9	Onion	39
Baby Leaf	24	Organic	40
Basil	22	<b>P</b> Pak Choi	41
Bean	9	Parsley	22
Beet	10	Pea	42
Broccoli	13	Pepper	43
<b>C</b> Cabbage	16	Pumpkin	53
Cantaloupe	36	<b>R</b> Radish	56
Cauliflower	18	Roma Tomato (Paste)	71
Chard, Swiss	65	Rutabaga	58
Cherry Tomato	67	<b>S</b> Slicing Tomato	73
Chinese Cabbage	18	Spinach	58
Cilantro (Coriander)	22	Summer Squash	61
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Collard	20	Sweet Pepper	47
Cucumber	21	Swiss Chard	65
<b>D</b> Dill	22	<b>T</b> Terms	81
<b>G</b> Grape Tomato	69	Tomato	67
<b>E</b> Eggplant	21	Turnip / Turnip Greens	77
<b>H</b> Herbs	22	<b>V</b> Variety Suggestions	4
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<b>K</b> Kale	23	Winter Squash	62
Kohlrabi	23	<b>Z</b> Zucchini	61
Komatsuna	23		
<b>L</b> Leafy Greens	24		
Lettuce	31		
<b>M</b> Melon	36		
Microgreens	29		
Mustard	38		







A red McCormick Farmall tractor is the central focus, with three pumpkins of varying sizes resting on its front platform. The tractor's body is a vibrant red, and the words "McCORMICK FARMALL" are printed in white on the side. The background is a soft-focus outdoor setting. The entire image is framed by a decorative border of light green line art depicting various vegetables like pumpkins, beans, and leafy greens.

# SAKATA® Home Grown

VEGETABLE SEED CATALOG



McCORMICK  
FARMALL

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