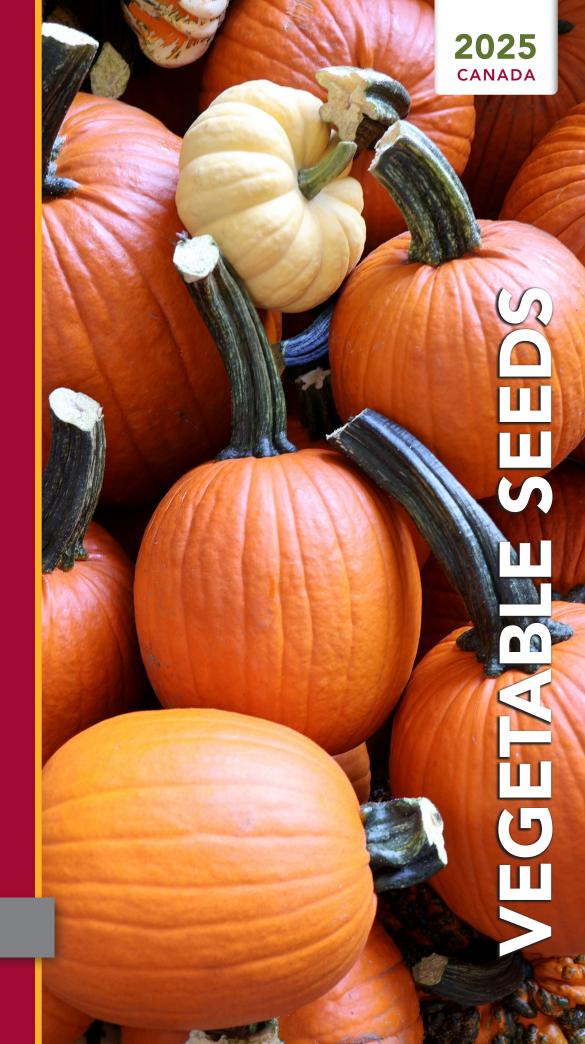


SWEET CORN PUMPKINS PEPPERS WATERMELONS SQUASH TOMATOES BEANS MELONS CUCUMBERS CUT FLOWERS

And More Inside!

Catalog & Resource Guide



NEW PRODUCTS FOR 2025





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Dear Grower,

You are part of the hardest working, dedicated, and risk-adventurous group of people there is. Thank you for your determination and for all you do to help feed the world!

A year ago, I shared with you that I felt we had an awesome team, and we do! Since then, our team has changed somewhat, and I am still confident that we have one of the most experienced and grower focused professional sales teams out there.

Dave Silveus retired this summer after a 46-year career that included time at Campbell Soup, Peto Seed, Seminis, and then 14 years with us as a sales consultant in the Ohio and Kentucky territory. Additionally, George Wonnacott, our Canadian sales consultant, encountered health issues in early September and passed away peacefully surrounded by his family. We had the pleasure of working alongside George for 26 years.

We're excited for Dave on his retirement, and saddened for the loss of George. We miss their contributions to our discussions about our seed business, the produce industry, and the growers we serve.

Rest assured, we're working to find someone to replace George in supporting growers in Canada. We've also made changes to improve our coverage in Ohio and Kentucky with the hiring of Kirk Moyer and Liz Meredith.

Kirk is covering Michigan, northern Indiana, and northern Ohio. Kirk has worked in agriculture his entire career, with roles in seed production, agronomy, sales, operations, and management for various companies. He, along with his sons, also raise produce on the family farm in southwest Michigan.

Liz is covering southern Illinois, southern Indiana, Kentucky, and Tennessee. Liz has worked in sales and product development roles within the vegetable seed industry with a couple of our breeder/producer suppliers. Liz is also growing vegetables on her family farm in Kentucky.

In addition, Barry Rupp has moved into the role of sales manager, where his over 30 years' experience will help boost our grower support.

Finally, as you can see to the left, we have several new products you'll want to consider for the 2025 growing season. And note that our payment discount is still available to help you maximize your bottom line and optimize your cash flow.

Thank you for your business and the trust you place in us.



Singrely,

Philip Rupp President

REGIONAL CONSULTANTS



IN MEMORIAM: George Wonnacott 1947-2024 George always said: "Thank you for all you do." So, George: Thank you for all you did.



Barry Rupp Sales Manager 419-583-0050 barryr@ruppseeds.com



Brad Paulson N Illinois, Iowa, Minnesota, NE Missouri, Wisconsin 608-346-1871 bradp@ruppseeds.com



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Jeff Hess Delaware, Maryland, New Jersey, Pennsylvania 215-262-5435 jeffh@ruppseeds.com



Kirk Moyer N/Mid/S Ohio, N Indiana, Michigan 269-503-0979 kirkm@ruppseeds.com



Liz Meredith S Illinois, S Indiana, W Kentucky, SE Missouri, W Tennessee 270-889-4477 lizm@ruppseeds.com



Phil Ramsey E Kentucky, North Carolina, SE Ohio, E Tennessee, Virginia, West Virginia 540-250-2023 philwr@ruppseeds.com

5 WAYS to ORDER*

* Use only a **single method** to order. (Example: If mailing order, don't place order online.)

> **PHONE** 1-800-700-1199 (M-F 8:00 am - 5:00 pm EST)

> > ONLINE www.ruppseeds.com

Our website will initially display pricing for U.S. customers. In order to view Canadian pricing (in U.S. Funds), please log in to the website or reference this catalog.

> **FAX** 419-337-5491

MAIL Rupp Seeds 17919 County Road B Wauseon, OH 43567

EMAIL orders@ruppseeds.com

Additional ordering information can be found on page 132.

PAYMENT DISCOUNTS

Payment discounts for orders over \$350.00. Discounts available through April. See page 130 for details.

> **FREE SHIPPING** If your order is over \$350 then you qualify for FREE shipping!

Until we find someone to serve our Canadian customers, our entire team is available to provide assistance and answer your questions. Please give us a call at 1-800-700-1199 to be connected with a member of our team.

Many of you may have worked with **Kristy-Marie** as she was George's inside representative. Feel free to contact her via email at **kristys@ruppseeds.com** or 419-337-9011 for any immediate needs.

INSIDE SALES



Kristen: x7098



Kristy-Marie: x9011



Maryn: x9013



Nicole: x9002



Pete: x9003



Roman: x9017



Sarah: x7091

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ICON KEY

Cruiser - Items treated with Cruiser seed treatment are marked with this symbol and highlighted in purple in the price tables.

Documents Required

- This color coded icon marks varieties that need signed documents / waivers in order for the product to be shipped. A page number and color will direct you to the document in the back of the book.

FarMore - Items treated with FarMore seed treatment are marked with this symbol and highlighted in green in the price tables.

Game Changers - An item marked as a Game Changer

traction with growers either through early release trialing or as a result of giving a new product a try. These products have the potential to become tomorrow's All Stars and bring something special to the table. These are "must try" products in this crop type.





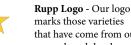
is one that is gaining some

Grower Preferred All-Stars

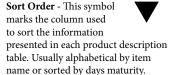
- Items marked with this symbol are "All Stars". They have been and will continue to perform consistently well for many growers across a wide geography. Growers really can't go wrong by planting these selections.

High Tunnel - Items marked with this symbol are recommended for high tunnel and protective culture production.

New - Most often this is a new release, but it can also be new to our lineup and not new in the market. Progressive growers that are producing other similar varieties in this product category should consider giving this a try to see if it works for them.



marks those varieties that have come from our research and development group as well as products for which we have exclusive marketing rights.



Vendor / Brand logos contained within are properties of their respective trademark holders.

GLOSSARY

AAS - All America Selection winner.

Anthocyaninless - Recessive gene that blocks the expression of purple pigment.

Bitterfree - (cucumbers) The plant and fruit lack cucurbitacins, a chemical, which gives a bitter taste.

Bolting - When plant begins to produce flowers and set seed.

Concentrated Ripening/Set - (tomatoes) When 80-90% of the fruit ripen within a short period of time.

Confectionery - (sunflowers) Used for human consumption.

Days from transplant - This refers to maturity from when transplants are planted outside in the field. Time from seeding to transplant will need to be added to calculate overall maturity.

Determinate - Plant habit where vine will cease to grow once it reaches a particular size.

Dwarf Indeterminate - (tomatoes) Plant habit where vine central stem continues to grow in length, but lateral branches do not.

Expansion Rate - Under ideal conditions, the number of cups of popped corn for every cup of unpopped corn.

F1 - see Hybrid

F300 - FarMore® F300, an advanced fungicide seed treatment technology, delivers protection for a variety of small-seeded vegetable crops against a broad spectrum of seed and seedling diseases.

FI400 - FarMore® FI400 provides early-season protection to prevent or eliminate damage caused by cucumber beetles.

Green Shoulder (GS) - (tomatoes) The dark green shoulder on unripe fruit, often the last area of the fruit to ripen.

Gynoecious - (cucumbers) Plant with only female flowers.

Heritage Varieties - Varieties marked heritage varieties are long standing products that have been used for generations. Mainly open pollinated (OP) varieties.

Heterosis - The improved or increased function of characteristics in a hybrid offspring. A hybrid exhibits heterosis when its traits demonstrate significant enhancement over those of its parent varieties

Heterozygous - When the parents in a sweet corn hybrid are of different types, i.e. SU x SE, the hybrid is heterozygous. Heterozygous hybrids have better vigor in cooler soils.

Holding Ability - The period of time a fruit will maintain marketability once it has reached maturity.

Homozygous - When both parents in a sweet corn hybrid are of the same type, i.e. SE x SE, they are considered homozygous. Homozygous hybrids typically have higher sugar content.

Hybrid (F1) - Hybrid seed is produced from the cross between two genetically pure varieties, typically from the same species. Hybrids are common in agriculture, especially for crops that benefit from heterosis, such as corn and rice. Hybrids are created as a means to combine the positive and valuable characteristics of the parent varieties into a new hybrid variety. Seed production of a hybrid occurs by controlling the pollination between its parents, such as hand pollination in cucurbits or de-tasseling in corn.

Indeterminate - Plant habit where vine continues to grow.

M - Is a unit of measure that equals 1,000. Seed sold by seed count is priced in multiples of 1,000. For example 5M, 10M, 25M which stands for 5,000 seeds, 10,000 seeds and 25,000 seeds.

Monoecious - (cucumbers) Plant with both distinct male and female flowers.

Naked Seeded - No hull on the seed. Easier to eat than normal hulled seeds.

Open Pollination - Open pollination is pollination by insects, birds, wind, or other natural mechanisms. Seeds of open-pollinated plants will produce new generations of those plants; however, because the pollination is uncontrolled and the pollen source is unknown, open pollination may result in plants that vary widely in genetic traits.

Open Pollinated (OP) - A variety is said to be open pollinated when it is a non-hybrid variety, meaning that seed is produced via self-reproduction. Seed production of an open pollinated variety occurs using the plants natural pollination mechanism but in a controlled environment to prohibit the introduction of outside, unrelated pollen sources. These controls insure

that the open pollinated variety stays genetically pure and true to type.

Parthenocarpic - (cucumbers) Plants that set fruit without pollination.

Pelleted - Seed coating that improves the shape, size, and uniformity of raw seeds for more accurate sowing by hand and precision-sowing by machine. Pellets are made of inert materials which dissolve as they absorb moisture, allowing immediate access to oxygen for fast, uniform seedling emergence.

Pendant - Refers to how the pepper hangs on the plant.

Pithy - Fibrous, course texture.

Pungent - Refers to heat level of hot peppers; pungent = hot.

PVP - Plant Variety Protection. Seed may not be reproduced for sale without permission of the originator.

Sieve - Diameter of green bean pod.

Slip - This is a small crack that forms around the stem of melons. It is generally used as a harvest indicator. See the "Melon" section for a complete definition.

Transgenic - Genetically modified.

Uniform Ripening (UG) - Has the gene for uniform ripening of the fruit. Fruit are typically lighter green prior to ripening.



FREQUENTLY ASKED QUESTIONS

Do you offer any discounts that I would be eligible for?

Yes, we offer cash discounts on all seed orders over \$350.00. The cash discount is for orders paid for via check. You may prepay your seed order at anytime and we will add that month's discount to your credit on account. The August discount is 10% and goes down a percentage each month through April. See page 130 for more details.

You offer more high quality varieties than most seed dealers. How do you decide which varieties to offer?

This edition of our catalog features many varieties in over 43 vegetable crops. We consider most of these varieties as suitable for professional and commercial growers, while a few others are included because they're popular heritage varieties.

Deciding which varieties to offer is a challenging question and there are a number of factors that are considered, including:

- What market is a variety best suited for? For the shipper or fresh market? Or wholesale or retail trade?
- Does a new variety bring a game changing improvement over current varieties? Is it higher yielding? Does it produce more desirable, consistent or marketable fruit? Does produce from the variety offer any improvements in food quality or nutrition?
- Does the variety offer the grower any benefits in managing crop issues, weeds, insects or disease?

Many of these questions are answered in the product development trials we conduct every year on our farm. Our personal experience is important and our observations at the numerous vendor trials we visit also are a factor.

The reliability of the seed supplier is also important. Do they consistently have seed supply available? And is it high quality?

I am preparing for a food safety audit. Can you help? Is Rupp Seeds GAP certified?

Yes, Rupp Seeds is GAP certified. A copy of the certificate can be found on page 127.

In recent years there have been several occurrences of food borne illness. These situations have prompted both the government and industry to respond to insure a safe food supply. Development of Good Agricultural Practices (GAP) and Good Handling Practices (GHP) for the produce industry help minimize these outbreaks, and voluntary audits help to insure the practices are defined and in use.

The U.S. Food and Drug Administration's "Guide to Minimize Microbial Food Safety Hazards for Fresh Fruits and Vegetables" doesn't have specific guidance for seed companies. Even so, we recognize that many of our customers need our assurance that seeds are handled appropriately to minimize contamination.

We've consulted with food safety experts to understand what we can do to assist our customers with their audit preparations. They've recommended that we provide a Letter of Guarantee that briefly describes our practices and they've assured us this letter is acceptable in any food safety audit. We've included the letter in this catalog for your convenience. See page 128 for a copy.

Are all of your seeds treated?

Most of our seed is treated. We do have some varieties available untreated. These items are marked as untreated in the pricing tables. See the pricing table example below. Walker Deluxe is available untreated and has a 'U' at the end of the item number and the item number is red instead of black. When ordering, please put a "U" behind the item number to signify you are ordering untreated seeds. In addition, it's helpful to put "Untreated Seeds Only" on the top of your order form.

What are GMOs? What does GMO stand for? And why do they exist?

A GMO, or Genetically Modified Organism, is a plant or variety that was developed to include a desired gene or selection of genes from another plant or organism.

GMOs were developed to enable a plant with a builtin ability to resist herbicides, insects and diseases, helping farmers produce more while reducing their use of chemicals. Recent developments in science are also improving the plants water and nitrogen utilization, which enable it to produce a crop even when these nutrients are in short supply.

My customers occasionally ask me if I raise and sell GMO vegetables. Can you tell me which products in your catalog are GMO?

GMO varieties of corn, soybeans and cotton have been widely accepted by farmers in the US and internationally. GMO developments in vegetable crops, on the other hand, have been pretty limited, in large part due to the high cost of research and development for crops that aren't widely grown. Currently, the only GMO vegetable available in our catalog is sweet corn.

Of the more than 70 varieties of sweet corn roughly 25% are GMO. These include the Performance Series, Attribute, Attribute Plus, and Attribute II varieties listed on pages 30-32.

Is there more information about GMOs that I can provide my customers if they are interested in learning more?

GMOAnswers.com is an excellent resource for anyone interested in learning more about GMOs. Visitors can ask questions and get answers from experts across a wide range of disciplines who will provide balanced, fact-based responses. These experts include conventional and organic farmers, agribusiness experts, scientists, academics, medical doctors and nutritionists from a wide range of studies.

Pricing table example. "U" indicates untreated seed.

KALE				M=1,0	000 seeds
	Price per 1,000 seeds (M)	1M	5M	25M	100M
28005 Blac	k Magic	3.85	2.80	2.05	1.55
28504 Blue	Ridge	10.45	9.40	8.65	8.15
	Priced per package	4 oz.			
	Priced per pound in these package sizes		1#	5#	25#
28004U Red	Russian Untreated	15.25	33.85	33.35	33.10

ASPARAGUS



WAL	KFR	DFI	UXF
V V/\L			.0/(L

AJFARAGUJ				M=1,0	00 seeds
Priced per package	100 Seeds	500 Seeds			
Price per 1,000 seeds (M)			1M	5M	15M
13007U Walker Deluxe untreated	14.40	59.95	104.20	90.60	78.75

itures
ht headed spears with slightly purple cts. Impressive yields. High disease erance. Used for fresh market and ccessing.
le



BEANS

ACDADACUC

RUPP USE GUIDELINES

Home Garden and Farm Market varieties are considered to be high quality (gourmet) for fresh use or processing. They are low in fiber and more tender. As with most home garden varieties, pods set over a longer period for extended harvest.

Shipping varieties contain fiber that slows wrinkling under long distance shipping or longer time between picking and use. They are normally less tender than Home Garden or Farm Market varieties. Shipping varieties have a more concentrated pod set for mechanical harvest.

PLANTING

Plant green beans in soil temperatures of 65 degrees or greater. Planting depth should be $\frac{1}{2}$ " to 1". Row spacing should be 30" for handpicking. There should be approximately 2" between plants. Some commercial growers are using 15" rows for late planted green beans that are going to be mechanically harvested.

See "Germination Chart" on page 125 for additional information on germination rate and days to germination at various soil temperatures.

MANAGEMENT

Weed pressure and insect pressure are the hardest things to control in green beans. If conditions are wet, diseases are more prevalent.

HARVEST

Harvest green beans when 50% of the beans are 3 - 4 sieve.

STORAGE

Store beans at 40 - 45°F and 95% humidity.

DISEASE CODES

A - Anthracnose BBS - Bacterial Brown Spot BV - Common Bean Mosaic Virus CTV - Curly Top Virus HB - Halo Blight N# - Bean Mosaic Virus race number NLB - Northern Leaf Blight PM - Powdery Mildew R - Rust WM - White Mold

COLOR CODES

BY - Bright Yellow DG - Dark Green DY - Dark Yellow GR - Green Red LG - Light Green MDG - Medium Dark Green MLG - Medium Green P - Purple VDG - Very Dark Green Y - Yellow





BA0999





DARK HORSE 🗸









SAVE WITH CASH DISCOUNTS







SYBARIS



The earlier you order the more you'll receive!

See page 130 for all of the details.

November7%
December 6%
January 5%
February 4%
March
April

MOMENTUM

BEAN	IS	BUS	H GRE	EN Fr	esh Mar	ket		
Item #	▼ Variety	Days	Pod Length	Pod Color	Seed Color	Use	Disease	Features
07147	BA0999 📎	50	5 1⁄2"	DG	White	FM, S	BBS, N	Early bean has a pod that develops very quickly at maturity. Sieve size distribution is 65% in the 3-4 range and 35% in the 5's. Works well as a rain gap filler.
07043	Bronco Ŵ	58	5 1⁄2"	DG	White	FM, S	BV ¹	High yielding. For market or shipping.
07120	📌 Dark Horse 🕥	58	5 1⁄4"	DG	White	FM, S	BV, A, HB, R	Dark Horse is a new high quality bean with dark green, straight pods and good up- right plant habit. Expect a 3-4 sieve bean with improved standability that produces high-quality pods.
07033	Desperado Ň	53	5 1⁄2"	DG	Brown	FM, S	BV	Desperado is a robust variety that produces high yields of high-quality straight pods, quick to mature. Well adapted for heat and stress tolerance with strong consumer appeal.
07155	🛨 Jade II Ò	60	6 1⁄2"	DG	White	FM, S	BV, CTV, R	Improvement to Jade - darker beans and better seed quality. Long, straight pods which grow in a less concentrated set.
07159	🖤 Justify Ò	57	5.6"	DG	White	FM, S	BV, CTV, A, R, HB, BBS	High quality, dual-purpose bean for fresh market and processing with dark green pods and an anticipated robust disease package. The first of its kind with IR to root rot.
07005	Momentum Ò	56	5 ¾"	DG	White	FM, S	BV	An upright bush style variety. Produces a concentrated set of straight pods with outstanding yields and is widely adapted to most growing regions.
07024	Outlaw Ò	57	5 1⁄4"	DG	White	FM, S	BV	Extremely straight, glossy pods that resist breaking and bruising. Plant does not lodge. Versatile across all growing regions. Excellent seed quality and germination.
07148	🔶 Sybaris Ò	55	5 1⁄2"	VDG	White	FM, S	BV, R	Sets shiny, high quality fruit even in plant's upper region.

BEANS BUSH GREEN F	M=1,0	00 seeds			
Price per 1,000 seeds (M)	2M	10M	20M	80M	800M*
07147 BA0999 Cruiser		4.80	4.55	4.35	4.10
07043 Bronco Cruiser	5.15	4.15	3.90	3.70	3.45
07120 Dark Horse Cruiser	5.50	4.50	4.25	4.05	3.80
07033 Desperado Cruiser	5.65	4.65	4.40	4.20	3.95
07155 Jade II Cruiser		4.35	4.10	3.90	3.65

BEANS BUSH GREEN F	EANS BUSH GREEN Fresh Market								
Price per 1,000 seeds (M)	Price per 1,000 seeds (M) 2M 10M 20M								
07159 Justify Cruiser		3.50	3.25	3.05	2.80				
07005 Momentum Cruiser	5.60	4.60	4.35	4.15	3.90				
07024 Outlaw Cruiser	5.45	4.45	4.20	4.00	3.75				
07148 Sybaris Cruiser	5.60	4.60	4.35	4.15	3.90				
* Multiple packages may be used t	* Multiple packages may be used to fill orders for these quantities.								









Seminis







BORSALINO

BEAN	١S	BUS	BUSH GREEN Heritage - Home Garden							
item #	▼ Variety	Days	Pod Length	Pod Color	Seed Color	Disease	Features			
07135	★ Jade	60	6 - 7"	DG	White	BV, CTV, R	Large, upright plants keep beans clean and straight. Heat tolerant and high yielding even when stressed by heat or cold.			
07048	Royal Burgundy	55	5 - 6"	Р	Buff		Better bush type than Royalty with longer, straighter, smoother pods.			
07026	Strike	55	5"	MG	White	BV ¹	A high yielding fresh market variety.			

BEANS		BUS	BUSH GREEN FLAT							
ltem #	▼ Variety	Days	Pod Length		Seed Color	Use	Disease	Features		
Fresh Market										
07017	Roma II	58	5 1⁄2"	MG	White	FM, HG	BV^1 , N^{15}	Good flavored Romano type for home or market.		

BEAN	١S	YEL	LOW V	VAX				
ltem # Fresh N	ltem # ▼ Variety Fresh Market		Pod Length	Pod Shape	Pod Color	Seed Color	Disease	Features
07157	Dawson Gold 📎	55	5"	Round	Y	White	BV, R, A	This is a larger sieve wax bean that has yellow pods and a robust yield.
08019	Sunburst Ò	50	6"	Round	BY	White	BV, HB	A Seminis variety for local market or shipping. Long straight pods that are an attractive bright yellow. Concentrated set.
08005	★ SV1003GF 📎	56	5 1⁄4"	Round	Y	White	BBS, BV	Has better color and a slightly longer pod than Gold Dust with a more upright plant. Consistent yielder.

BEANS		FRE	NCH F	ILET				
ltem #	▼ Variety	Days	Pod Length	Diameter	Pod Color	Seed Color	Disease	Features
08018	Borsalino Baby Wax	60	4"	1/4"	Y	White	A, BV	A Vilmorin high quality baby wax bean with a deep gold color and a concentrated set for both hand or mechanical harvest. Sieve size 2 & 3.

BEANS BUSH GREEN Heritage								
Priced per pound in these package sizes	1#	5#	25#	50#*	500#*			
07135 Jade	6.95	5.95	5.70	5.55	5.40			
07048U Royal Burgundy Untreated	6.40	5.40	5.15	5.00	4.85			
07026U Strike Untreated	6.30	5.30	5.05	4.90	4.75			
* Multiple packages may be used to fill orders for these quantities.								

BEANS YELLOW WAX				M=1,0	000 seeds		
Price per 1,000 seeds (M)	2M	10M	20M	80M	800M*		
07157 Dawson Gold Cruiser	6.00	5.00	4.75	4.55	4.30		
08019 Sunburst Cruiser	5.75	4.75	4.50	4.30	4.05		
08005 SV1003GF Cruiser	4.85	4.60	4.40	4.15			
* Multiple packages may be used to fill orders for these quantities.							

BEANS BUSH GREEN FLAT				
Priced per pound in these package sizes	1#	5#	25#	50#
07017U Roma II Untreated	6.15	5.15	4.85	4.65

BEANS FRENCH FILET			M=1,	000 seeds
Price per 1,000 seeds (M)	2M	10M	20M	100M
08018 Borsalino	6.35	5.60	5.35	5.10

GROWER PREFERRED ALL-STARS

BEANS

BEANS BUSH GREEN

If you are looking for a hand-pick bean with very long pods, **Jade** is the one for you. Jade has been a standard variety for some time and will provide good yields in all weather conditions.

Jade II is a newer version of Jade that has the same qualities you have come to expect from the original but with slightly darker and straighter pods.

Sybaris is a green bean that has performed admirably over the past several seasons. This variety has proven itself to be one of the highest quality green beans on the market! The pods are a shiny, dark green color and the sieve size remains in the 3's and 4's. It will also hold longer in the field to give growers more flexibility at harvest time.

BEANS YELLOW

SV1003GF is a newer wax bean that delivers the same yields as Sunburst with a slightly darker yellow pod. It is quickly becoming a favorite of wax bean growers who are also looking for longer pod length. SV1003GF averages around 5 ½" in length.

BEANS GREEN RUNNER

Volunteer Half Runner is a favorite for growers planting half runner beans. It has very long 6" pods that sets a lot of beans!

> **Kirk Moyer** Vegetable Consultant



BEANS		DR	SHELLING				
ltem # ▼ Variety		Days	Days Seed Color		Plant Type	Disease	Features
09032	Cabernet	91	Dark red	Kidney	Determinate Bush	BV	Mid season Kidney Bean. High quality and yield, excellent dark red color.
09031	Etna	88	Red flecks on off white	Cranberry	Determinate Bush	BV	An early season Cranberry Bean. Large seeded and high yield potential.
09033	SV1893GH	102	White	Navy	Determinate Bush	BV	Main season, high yield, a high quality Navy bean.
09034	SV6139GR	90	Brown flecks on buff	Pinto	Indeterminate Short Vine	BV	Early maturing Pinto bean. Short vine on an upright plant, great quality and color.

BEANS		GRE	EEN RU	INNER				
Item #	▼ Variety	Days	Pod Length	Pod Shape	Pod Color	Seed Color	Disease	Features
07118 🗡	Volunteer Half Runner	60	6"	Oval	LG	White	BV, R	A strain of Half Runner developed by the USDA breeder, Dr. Mullins, at the University of Tennessee. The commercial favorite.

ò Cruiser®

Cruiser[®] seed treatment insecticide guards against a broad spectrum of early season sucking and chewing insect pests in beans and sweet corn. By protecting the crop from the start, growers can improve stand establishment, enhance plant vigor and increase yield potential. <u>http://</u> <u>www.syngenta-us.com/crop-protection/seed-treatment/products</u>



Cruiser' treated items are highlighted in purple in the price tables. Look for this symbol in the product description tables marking Cruiser treated items.

BEANS DRY SHELLING			M=1,0	000 seeds
Price per 1,000 seeds (M)	2M	10M	20M	40M
09032U Cabernet Red Kidney Untreated	5.45	4.45	4.20	4.00
09031U Etna Cranberry Untreated	10.80	9.80	9.55	9.35
09033U SV1893GH Navy Untreated	4.85	3.85	3.60	3.40
09034U SV6139GR Pinto Untreated	5.15	4.15	3.90	3.70

BEANS GREEN RUNNER

Priced per pound in these package sizes	1#	5#	25#	50#
07118 Volunteer Half Runner	6.60	5.60	5.30	5.10



BEETS

PLANTING

Plant seed 1" apart and thin to 2" apart. Row spacing ranges from 15" - 24". Seed depth should be $\frac{1}{4}$ " - $\frac{1}{2}$ " deep. Poor stands are often the result of planting too deeply or the soil's crusting after a heavy rain. The seedlings may emerge over a relatively long period of time, making a stand of different sizes and ages of seedlings.

See "Germination Chart" on page 125 for additional information on germination rate and days to germination at various soil temperatures.

MANAGEMENT

It is extremely important to thin beets because they are a multigerm seed meaning each seed will produce several plants. Beets that are thinned when they reach approximately 3" tall can be used as greens. Frequent and shallow cultivation is important to keep the soil loose around the growing beet to ensure uniform roots.

HARVEST

Beets can be harvested whenever they grow to the desired size. About 60 days are required for beets to reach $1\frac{1}{2}$ " in diameter, the size often used for cooking, pickling or canning.

STORAGE

Beets may be stored in a polyethylene bag in a refrigerator for several weeks. Cut off the tops of the beets one inch above the roots. Beets store the best at 32°F and 95% humidity. Do not freeze.

3







MERLIN



RED ACE



SCHRUTE



TOUCHSTONE GOLD

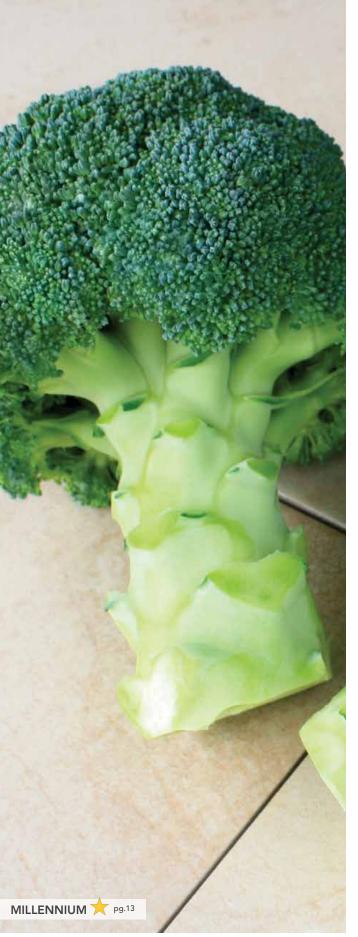
BEETS				
ltem #	▼ Variety	Days	Sugar	Features
Fresh Mar	rket			
14003	Camaro ^{F1}	50 - 55	15%	Good root quality, uniform size and shape. High marketable yield. Smooth skin, good internal and external color.
14105	Chioggia Guardsmark	60	12-15%	Candy-striped beet with alternating rings of dark red and white that are unique and beautiful, making this variety a popular choice for specialty markets. Increased uniformity and bolt tolerance. A strain of the popular Italian heirloom.
14108	Golden Boy 🌔	90	12-15%	Golden Boy features extremely uniform roots and a bright yellow color. Golden Boy produces high yields and main- tains a consistent quality while offering disease and drought resistance.
14011	Merlin 🕫 🌔	63	12 - 15%	A beet that replaces Pacemaker III with very similar qualities but more producible seed.
14002	Red Ace 🗈 🏷 🖍	53	12 - 15%	Early, sweet, red and resists zoning in hot weather. Excellent for garden, market or processing.
14116	Schrute 🗈 🍅	60	12-15%	A fast-growing, globe shaped hybrid with moderately zoned flesh, extremely smooth skin, and strong tops. These attractive and flavorful roots are great for fresh market, bunching, or processing.
14106	Touchstone Gold 🏷 ል	55	12-15%	Offers higher germination rates, more uniform round roots and less zoning than standard golden types. Solid green tops are long, attractive, and quickly shade out weeds. Vibrant golden yellow flesh retains its color when cooked and is sweet and more mild than red beets.
Heritage				
14104	Cylindra	60	5 - 7%	Unique, long cylindrical shaped beet, excellent for slicing. Up to 8" long and 1 34 " in diameter.
14101	Detroit Dark Red	58	5 - 7%	A very popular, tender, dark red beet used by many home gardeners.

BEETS				M=1,	000 seeds
	Price per 1,000 seeds (M)	5M	25M	250M	1,000M
14003 Can	naro	1.81	1.72	1.66	1.62
14105 Chi	oggia Guardsmark F300	1.90	1.81	1.75	1.71
14108 Gol	den Boy F300	2.72	2.63	2.57	2.53
14011 Me i	rlin ^{F300}	1.41	1.32	1.26	1.22
14002 Red	Ace F300	1.41	1.32	1.26	1.22
14116 Sch	rute F300	1.77	1.68	1.62	1.58
14106 Tou	chstone Gold F300	3.17	3.08	3.02	2.98
Sood	Size: $9, 10 = 30,000$ coods per pound				

Seed Size: 9 - 10 = 30,000 seeds per pound.

BEETS

	Priced per package	4 oz.			
	Priced per pound in these package sizes		1#	5#	50#
14104U Cylin	dra ^{Untreated}	5.05	13.40	13.15	12.90
14101U Detr	oit Dark Red Untreated	5.10	13.50	13.25	13.00



BROCCOLI

PLANTING

For spring broccoli, plant in greenhouse in flats. Sow ¼" to ½" deep. For fresh market broccoli, plant on 30" beds with trickle irrigation. On a 30" bed, plant two rows of broccoli. Plants should be 15" apart. When planting fall broccoli, count backward from the first fall frost in your area and add about 30 days from planting. This can be either started in a greenhouse or direct seeded into the field.

See "Germination Chart" on page 125 for additional information on germination rate and days to germination at various soil temperatures.

MANAGEMENT

Use starter fertilizer for transplants and side-dress with nitrogen fertilizer when the plants are half grown. Provide ample soil moisture, especially as the heads develop. Scout fields for aphids and cabbage worms.

HARVEST

Harvest when the head is large and firm, with a compact cluster of small flower buds. The buds should not have bright yellow flowers showing. Look for bright green or purplish-green heads. Yellow flowers and enlarged buds are signs of over-maturity.

STORAGE

Store the broccoli, unwashed, in loose or perforated plastic bags in the vegetable crisper of the refrigerator. Broccoli left unrefrigerated quickly becomes fibrous and woody.

Wet broccoli quickly becomes limp and moldy in the refrigerator—so wash it just before using. Store fresh broccoli in the refrigerator for 3 - 5 days. Old broccoli may look fine, but it develops strong undesirable flavors. It tastes best and is highest in nutritional value when storage time is brief.

DISEASE CODES

BS - Black Speck BR - Black Rot DM - Downy Mildew HS - Hollow Stem PB - Club Root

ALL-STARS 🤸

BROCCOLI

Emerald Crown is a perfect fit for 2nd pick spring and works for early fall harvest as well.

Imperial has great heat tolerance and fits in the summer harvest slot.

Millennium is ideal for harvest in the fall to late fall time period.

Jeff Hess Vegetable Consultant















SORRENTO

BRO	cco	LI						
ltem #		▼ Variety	Days from Transplant***	Sowing Season	Head Size	Bead Size	Disease Code	Features
Fresh N	Market	:						
15009	1	Eastern Crown F1	74	Spring Summer	Medium	Small		This is an outstanding variety for the East Coast. Small beads, blue- green head color and excellent heat tolerance. Perfect for the crown cut/ short trim market. Grows well in long day length and moderate heat.
15051	\star	Emerald Crown F1	78**	Spring	Medium	Medium Small	DM	A Sakata variety specifically bred for high quality and high yield crown cuts. Very uniform, tight heads with beads that are blue green. Nice compliment to Green Magic.
15053	NEW	Fortress F1	85***	Spring	Large	Small		A mid-late maturing, multi-use broccoli with a clean stem, which makes for an easier harvest. Pinrot ^{IR} and anthocyanin free make this a fine choice for bunch and domestic crown markets.
15044		Green Magic F1	75	Spring	Medium	Medium Small	DM	This summer type broccoli offers very good uniformity and holding ability. It is in the mid-early maturity class and has a wide adaptability. Has a semi-dome, tight head, with medium-small bead size and good plant habit.
15001	•••••••	Hancock ^{F1}	85	Spring Summer	Medium	Small		Raised heads for easier picking ability. Thin-stalked variety used for either crown cut or bunching use. Very good heat tolerance.
15049	\star	Imperial F1	85*,**	Spring	Medium	Small	DM	A Sakata variety that performs best during long day conditions. Good heat tolerance. Tight head with small, dark green beads.
15004	*	Millennium F1	88	Spring, Summer	Large	Extra Small		A highly adaptable, crown cut type, yielding high-domed heads with very small beads and exceptionally uniform head maturity. It has a round shape, good heat tolerance and less side shoots. Is anthocyan- in-free and has shown strong post-harvest color retention.
15509		Sorrento Broccoli Raab	70	Spring, Fall	Large Florets			Sorrento is a fast-growing, early maturing variety. Uniform large florets with blue-green narrow turnip-shape leaves. Tall upright plant, slow to bolt. Perfect for fresh market or home gardeners.
	••••••		*	Day length s	ensitive, earlie	maturity whe	n day length i	is longer.
	•••••		**	Requires wa	rmer night time	e temperatures	to mature, g	rowth rate dramatically slows down under cold temperatures.
			***	Add 15-20 d	lays for direct se	eding		

BROCCOLI				M=1,0	000 seeds				
Price per 1,000 seeds (M)	1M	5M	25M	100M	500M*				
15009 Eastern Crown	12.55	11.95	11.60	11.20	11.00				
15051 Emerald Crown	11.00	10.40	10.05	9.65	9.45				
15053 Fortress	11.75	11.15	10.80	10.40	10.20				
15044 Green Magic	9.60	9.00	8.65	8.25	8.05				
15001 Hancock	9.70	9.10	8.75	8.35					
15049 Imperial	10.30	9.70	9.35	8.95	8.75				
15004 Millennium	11.65	11.05	10.70	10.30	10.10				
Priced per package	1 oz.	4 oz.							
Priced per pound in these package sizes			1#						
15509 Sorrento Broccoli Raab	14.20	22.70	68.25						
* Multiple packages may be used	* Multiple packages may be used to fill orders for these quantities.								



BRUSSELS SPROUTS

PLANTING

Start in the greenhouse and transplant in early to mid summer, when one would start long season cabbage. Seeds should be planted 4 - 5 weeks before transplanting. Allow 90 - 100 days for plants to mature. For summer harvest, you must plant transplants of an early, heat-resistant variety in very early spring. Sprouts maturing in hot weather or under dry conditions are more likely to develop bitterness. Fall production is the most desirable in a large portion of the country. Plant 24" - 36" apart in the row and 30" - 36" apart in rows. See "Germination Chart" on page 125 for additional information on germination rate and days to germination at various soil temperatures.

MANAGEMENT

Brussels are grown much like cole crops, cabbage and broccoli.

HARVEST

Harvest sprouts when buds form heads one to two inches in diameter. Pick sprouts when they are firm. Lower sprouts mature first.



CAPITOLA



CHURCHILL



JADE CROSS REGULAR



RED BALL



A
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5
W

BRUSS	ELS SPROUTS				
Item #	▼ Variety	Days	Sprout Size	Plant Size	Features
Fresh Mai	rket				
16006	Capitola F1	90	1 1⁄2"	38"	Known for uniform, high quality sprouts. Adaptable, being well suited to fresh market and processing. It is harvestable either by hand or machine. Produces heavy yields.
16007	Churchill ^{F1}	80	1 - 1 ¼"	30"	A first early variety, maturing late August to October. Produces good yields of tight, evenly spaced buttons with superb flavor.
16002	Jade Cross Regular F1	85	3⁄4 - 1"	28"	Popular early maturing variety. Deep green sprouts are spaced closely on medium sized plants. High yield of firm, oval-shaped, medium sized sprouts. Holds well in adverse weather.
16502	Red Ball	85- 90	1"	38"	Specialty variety producing red sprouts which improve in color after cold weather. Best red variety available.

BRUSSELS SPROUTS			M=	1,000 seeds
Price per 1,000 seeds (M)	1M	5M	25M	100M
16006 Capitola	28.35	27.70	27.40	26.95
16007 Churchill	16.45	15.80	15.50	15.05
16002 Jade Cross Regular	11.80	11.15	10.85	10.40
16502 Red Ball	6.35	5.70	5.40	4.95



CABBAGE

PLANTING

Transplant early cabbage soon enough that it matures before the heat of summer. Planting two or three varieties with different maturities can provide harvest over a longer period of time. Late cabbage must be started during the heat of mid-summer, but it develops its main head during the cooling weather of fall. It may be transplanted or direct seeded. Plants should be planted 12" - 24" apart depending on variety and the desired head size. Sow cabbage seeds ¼" - ½" deep.

See "Germination Chart" on page 125 for additional information on germination rate and days to germination at various soil temperatures.

MANAGEMENT

Use starter fertilizer when transplanting and side-dress with nitrogen after plants are half grown. Keep plants out of intense sunlight and heat of summer. Common problems are Yellow or Fusarium Wilt, as well as cabbage worms.

HARVEST

Cabbage can be harvested anytime after the head has formed. For highest yield, cut the cabbage heads when they are solid (firm to hand pressure) but before they crack or split. When heads are mature, a rain may cause heads to crack or split.

STORAGE

Fresh, uncut heads of cabbage can be stored in the refrigerator for up to two weeks. Cover loosely with a plastic bag or use perforated bags. Do not wash cabbage before storing; the extra moisture will hasten deterioration.

DISEASE CODES

ALS - Angular Leaf Spot ALT - Alternaria Leaf Spot BR - Black Rot BS - Black Spec CR - Crown Rot DM - Downy Mildew Foc - Fucerioum T - Thrips TB - Tip Burn YR - Yellows Resist

ALL-STARS

Blue Vantage has a great disease package with moisture tolerance for the early/main season.

CABBAGE

Fast Vantage Look no further for your early cool season planting.

Golden Cross Improved is an early 40-45 day very sweet cabbage that is a personal mini size cabbage that is perfect for the small one to two person family.

Stellar Vantage A later season variety which holds in the field very well.

Xtreme Vantage has similar genetics to Grand Vantage except with black rot tolerance and larger – very uniform and excellent quality.

RED CABBAGE

Red Dynasty is a very uniform dependable red cabbage with a good disease package including tip burn resistance.

Phil Ramsey Vegetable Consultant















CABE	BAG	E	HYBRID					
ltem #		Variety	▼ Days from Transplant*	Head Weight pounds	Head Type	Color	Disease Code	Features
17069	\star	Fast Vantage	50	2 1/2	Round	Medium Green		A very uniform hybrid that is slightly earlier than Headstart for the early cool season.
17005		Stonehead	60	3 - 4	Round	Gray Green	TB	A popular, early hybrid for home garden or market. Solid, slow to burst heads.
17117	NEW	Green Voyager	70	3 - 4	Round	Blue Green	Foc ¹	All season hybrid with good heat tolerance. Green Voyager's head is compact, round and medium sized. It's very attractive and has a distinctive blueish green color.
17097		Platinum Dynasty	70	3 - 4	Round	Blue Green	BR, TB, YR	A Seminis fresh market hybrid with excellent uniformity in the early main season time slot. Performs well in the East & Midwest both in the summer and fall.
17022	\star	Blue Vantage	80	3 - 4	Round	Blue Green	BR, BS, TB, YR	Early, main season hybrid, excellent appearance, disease tolerant and excess moisture tolerant. Excellent for fresh market or slaw.
17048		Cheers	80	4 - 6	Round	Blue Green	BR, YR	A hybrid with uniform heads, larger wrapper leaves. Disease resistant. Compare to Blue Vantage.
17011	\star	Xtreme Vantage	80	5 - 6	Round	Blue Green	BR, TB, YR	Very good uniformity in field. Has a good disease package.
17009	\star	Stellar Vantage	85	5	Round	Blue Green	BR, YR ¹	LIMITED SUPPLY Mid-late maturity with compact heads and short cores. Offers nice, dense heads and has good field-holding ability.
			* Add 10-15 days f	or direct seeding.				

CABBAGE Hybrid				M=1,0	000 seeds
Price per 1,000 seeds (M)	1M	5M	25M	100M	500M*
17022 Blue Vantage	6.90	6.30	5.70	5.10	5.00
17048 Cheers	8.30	7.70	7.10	6.50	6.40
17069 Fast Vantage	8.10	7.50	6.90	6.30	6.20
17117 Green Voyager	8.20	7.60	7.00	6.40	6.30
17097 Platinum Dynasty	7.90	7.30	6.70	6.10	6.00
17009 Stellar Vantage	7.55	6.95	6.35	5.75	5.65
17005 Stonehead	7.40	6.80	6.20	5.60	5.50
17011 Xtreme Vantage	6.80	6.20	5.60	5.00	4.90
* Multiple packages may be used t	o fill orders fo	or these qua	ntities.		







RED JEWEL



TOY CHOY

CABBAGE		SPECIAL	SPECIALTY Hybrid							
Item # Variety		▼ Days from Transplant*			Color	Disease Code	Features			
17098	★ Golden Cross Improved	40	2	Round	Green		A small-sized hybrid cabbage. Uniform globe heads are medium green and firm with a short core. Early bursting after full maturity. Recommended harvest spring to fall.			
17090	🔶 Red Dynasty	72	3 ½ - 5	Flat Round	Red	BR, TB	A Seminis red cabbage with the right size for fresh market plus intermediate black rot resistance.			
17070	Red Jewel	75	3 - 5	Round	Purple Red	TB	Sakata hybrid that is widely adaptable with very good holding ability. Excellent uniformity and yield potential.			
		* Add 10-15 days	for direct see	ded						

CABBAGE		HERITAG	HERITAGE OP							
Item #	Variety	▼ Days from Transplant*	Head Weight pounds	Head Type	Color	Disease Code	Features			
17512	Early Flat Dutch Brunswick	88	6 - 8	Flat Round	Dark Green		Popular home garden variety.			
17508 Late Flat Dutch		105	Up to 30	Flat Round	Green		Good storage variety and one of the best for sauerkraut. Home garden.			
		* Add 10-15 days				••••••				

CABBAGE SPECIALTY	Hybrid			M=1,0	00 seeds
Price per 1,000 seeds (M)	1M	5M	25M	100M	500M
Golden Cross 17098 Improved	9.60	9.00	8.40	7.80	7.70
17090 Red Dynasty	11.55	10.95	10.35	9.75	9.65
17070 Red Jewel	11.35	10.75	10.15	9.55	9.45

CABBAGE OP

	Priced per package	1 oz.	4 oz.	1#
17512 Early Flat Dut	ch Brunswick	6.55	9.90	19.70
17508 Late Flat Dute	:h	6.55	9.90	19.70

ONLINE VEGETABLE PRODUCTION RESOURCES

www.ruppseeds.com/MVPG

Purdue University's "Midwest Vegetable Production Guide for Commercial Growers" which includes spacing, fertilizing and harvesting information, as well as information on diseases, pest management and weed control.

www.ruppseeds.com/MAVR

The 2022/2024 edition of the Mid-Atlantic Commercial Vegetable Production Recommendations.

www.ruppseeds.com/PSUSoil

Penn State University offers soil test recommendations for commercial vegetables.

www.ruppseeds.com/uoiVeg

Variety

CABBAGE

Fresh Market

ltem #

18010

18017

University of Illinois Extension Vegetable Gardening Basics.

57	4 - 5	Napa	Green	DM
67	4-5	Nana	Green	BS, CR, TB
	67			

CHINESE TYPES 🔬

Head Weight

pounds

•••••••••••••••••••••••••••••••••••••••	•••••••••••••••••••••••••••••••••••••••
	* Add 10-15 days for direct seeded

▼ Days from Transplant*

CABBA	GE	CHINESE	CHINESE Pak-Choi							
Item #	Variety	▼ Days from Transplant	Head Type	Color	Features					
49013	Toy Choy F1	30 - 35	Celery	White	A compact hybrid Cantonese Pak Choi with thick, broad, milky white petioles and glossy, dark green leaves. Perfect for growers servicing Asian markets.					
49012	Joi Choi F1	35 - 40	Celery	White	First hybrid white stem. Slower bolting and higher yielding than OP's. Popular with the Chinese market.					

CABBAGE CHINESE			M=1,	000 seeds	CABBAGE CHINESE Pak	-Choi	M=1,000 seeds			
Price per 1,000 seeds (M)	1M	5M	25M	100M	Price per 1,000 seeds (M)	1M	5M	25M	100M	
18010 Blues	4.60	4.00	3.70	3.10	49012 Joi Choi	5.30	4.70	4.40	3.80	
18017 Yuki	6.00	5.40	5.10	4.50	49013 Toy Choy	4.25	3.65	3.35	2.75	

www.ruppseeds.com/OSUVeg

The Ohio State University Extension Vegetable Crops website with research reports on many crops. The site also includes a listing of vegetable team members by expertise and how to contact them.

www.ruppseeds.com/MSUipm

Michigan State University's guide for Integrated Pest Management in commercial vegetable production.

www.ruppseeds.com/NCShort

North Carolina State University's Department of Horticulture Science website.

www.ruppseeds.com/PSUext

Features

and size.

spring or early fall.

Disease

Code

Penn State University's Department of Plant Pathology, Vegetable Disease Identification.

Extra slow bolting, high disease tolerance, superior performance in

Yuki is a medium maturing, China Pride type hybrid. Good uniformity





Head Type

Color





When deciding what variety of carrot to plant one must determine two things: "What is my target audience?" and "What kind of soil do I have?" Growers need to define if they are selling to fresh or storage markets. Most of the carrots available from Rupp are geared towards fresh market. If high tunnels or cold frames are used in your operation, you may want to consider carrots as part of your rotation due to their ability to resist cold weather.

There are five main types of carrots: Nantes, Chantenay, Baby, Imperator, and Danvers.

- Nantes are easily and widely adapted; straight cylindrical roots ranging 5" - 7" long. They tend to have a sweet flavor and crisp texture, but have a limited storage potential. Nantes are grown in loose sandy soils or in raised beds.
- Chantenay have conical roots with broad shoulders and rounded tips. They have a rich, sweet flavor and also possess a good storage potential. They are an excellent type to grow from summer to fall and are adapted to various soil types. They usually size up well in clay soils with high organic matter content.
- Baby carrots have a root less than 5" long with a crisp texture and are frequently quite sweet when mature. They also are grown in any well drained soil and can be used to separate different types of salad greens. They tend to have limited storage potential.
- Imperator are long with a tapered root shape, stocky shoulders and strong tops. They tend to have a fibrous texture and store well. This type of carrot sizes up best in deep, sandy loam.
- Danvers have a thick rooted cylindrical shape with a yellowish core. This type is mainly used for processing, juicing, and storage.

PLANTING

Carrots can be planted in soils as cool as 40°F with the ideal temperature ranging from 50 to 75°F. They take anywhere from 7 - 21 days to emerge from the soil depending on soil temperatures. Spring carrots are planted 2 - 3 weeks before the last frost. For fall harvest, plant carrots 10 - 12 weeks before the first frost. Seed carrots $\frac{14''}{12''}$ deep and 15" between rows. Using seed tapes or pelleted seed will help prevent over seeding.

See "Germination Chart" on page 125 for additional information on germination rate and days to germination at various soil temperatures.

MANAGEMENT

Soil nutrients are very important. Test the soil to check for optimal levels. Also scout for insect and fungal infestations. Root quality is best when soil temperatures are 60 - 70°F. The shape of the root is determined within the first few weeks after germination when the new plant extends its taproot deep into the soil. Sometimes growers will mix radish seed with carrot seed to help with emergence. Radishes tend to have the ability to break though soil crusting which in turn helps the carrots emerge.

HARVEST

Fresh market carrots are harvested when they are $\frac{34''}{12''}$ in diameter.

STORAGE

Store carrots at 32 - 34°F and at 98 - 100% humidity. Store clean carrots away from other fruits and vegetables.















VIPER

CARRC	DTS	HYBRID)			
ltem #	▼ Variety	Maturity	Size	Туре	Interior	Features
19034	Bengala	Mid-Late	7.5-8.3	Nantes	Orange	This variety has tall tops with a tolerance to Alternaria dauci. It has healthy foliage, good taste, and long storability.
19032	Bolero	Early	8"	Nantes	Orange	Bolero is a proven variety year in and year out as a versatile nantes suited for bunching, slicing and baby nantes markets.
19026	Enterprise	Early Main	12 - 14"	Imperator	Dark Orange	A Seminis fresh processing cut and peel or slicing carrot with long, smooth, dark orange roots with a small core. Resists cracking. Strong top with good leaf blight tolerance.
19014	Gold Nugget	Medium Early	7.5 - 8"	Nantes	Yellow	Sweet flavor. Very uniform with high production. Medium vigor. Erected with a strong top and good aptitude for harvesting by top lifting.
19006	Musico	Early	7 - 8"	Nantes	Dark Orange	A uniform, cylindrical root with well-rounded tips at maturity. Strong attachment for harvest by lifting or bunching. Very good internal quality. A good replacement for Primo.
19007	Olympus	Main	7 - 9"	Imperator	Dark Orange	Outstanding for bunching. Great color combined with a smooth finish. Very crisp texture and excellent flavor. Classy hybrid with high yield potential.
19009	Viper	Main	12 - 14"	Imperator / Cut & Peel	Bright Orange	Was bred for higher density plant populations and maintains its long length to maximize yield for two inch pieces. Small, indistinctive core and incredible top strength with good stem attachment for easy harvesting. Combines a great flavor profile and very crisp texture.

CARF	ROTS Hybrid			M=1	,000 seeds
	Price per 1,000 seeds (M)	10M	100M	1,000M	5,000M
19034 E	Bengala	1.27	0.92	0.87	0.84
19032 E	Bolero	1.74	1.39	1.34	1.31
19026 E	Interprise	1.14	0.79	0.74	0.71
19014 G	Gold Nugget	1.85	1.50	1.45	1.42
19006P N	Ausico Pelleted	1.85	1.50	1.45	1.42
19007P C	Dlympus Pelleted	1.40	1.05	1.00	0.97
19009 V	/iper	1.31	0.96	0.91	0.88



CAULIFLOWER

PLANTING

Cauliflower is best started from transplants for both spring and fall crops. Do not transplant sooner than 2 - 3 weeks before the average frost free date in the spring. Cauliflower is more sensitive to the cold than its cabbage-family relatives. It is important to start cauliflower early enough that it matures before the heat of the summer, but not so early that it will be injured by the cold. Transplant autumn cauliflower and cabbage at the same time. Use starter fertilizer when transplanting. Start the transplants so that they grow actively until transplanting and never cease growth. Space transplants 18 - 24" apart in the row. Use wider spacing for fall plantings.

See "Germination Chart" on page 125 for additional information on germination rate and days to germination at various soil temperatures.

MANAGEMENT

Cauliflower plants should be kept growing vigorously from the seedling stage through harvest. When the heads begin to form (shows 2 to 3" of white curd at the growing point), it is ready to blanch. Tie the outer leaves together over the center of the plant to protect the head from sunburn, to keep it from turning green and developing an off-flavor. When selecting cauliflower choose varieties that are self wrapping. This will help in the blanching process.

HARVEST

The curd develops rapidly under proper growing conditions. It grows 6 - 8" in diameter and is ready to harvest within 7 - 12 days after blanching begins. The mature heads should be compact, firm, and white. Harvest the heads by cutting the main stem. Leave a few green outer leaves attached to protect the heads. Cut the heads before they become over mature and develop a coarse "ricey" appearance. Once individual florets can be seen, quality deteriorates rapidly.

ALL-STARS 🔶

CAULIFLOWER

Minuteman A very nice, early variety that's perfect for summer harvest.

Synergy handles the heat very well for late summer harvest.

Shakaris is perfect for fall harvest and is also a fantastic self-wrapper.

Twister has shown great results as an option for heavier ground in the spring and summer sowing slots. Good internal wrap with consistent yields.

> Jeff Hess Vegetable Consultant





DEPURPLE



SYNERGY







SHAKARIS



CHEDDAR

CAULIFLOWER								
Item #		Variety	▼Days from Transplant	Head Type	Plant Size	Self Wrapping	Sowing Season	Features
20015	\star	Minuteman ^{F1}	60	Deep Dome	Medium	Good	Spring	An early and widely adapted hybrid from Seminis that has performed well when harvested in the summer heat and early fall. Superior head quality.
20013		DePurple F1	68	Domed	Medium, Erect	Very Good	Spring, Summer	Lavender/pink variety that offers uniform maturity and consistent performance under a variety of environmental conditions. Ideal for the specialty color market.
20020		Freedom F1	70	Domed	Large	Excellent	Spring, Summer	A mid season hybrid with more uniformity for harvest.
20009	\star	Synergy ^{F1}	75 - 80	Domed	Medium	Excellent	Spring	An Enza variety especially suited for summer production. Will give good covering for nice white curds in the heat.
20003	\star	Twister ^{F1}	75 - 80	Domed	Medium	Excellent	Spring, Summer	Twister is a tight, heavy-headed, white cauliflower with good internal wrap. It is mid-maturing with very uniform harvest. Twister seems to prefer heavier ground.
20014		Flame Star F1	80	Semi Dome	Medium, Erect	Good	Spring, Summer	Beautiful semi-orange variety targeted to the specialty color market. Produces medium-size plant with high yields of smooth, dense, well-shaped heads. Versatile for fresh market or process- ing markets.
20006	\star	Shakaris F1	80 - 85	Domed	Compact	Very Good	Spring, Summer	Great for fresh market and processing. Consistent head size with abundant yield potential. Notable white curd.
20021		Cheddar F1	85 - 90	Domed	Medium	Poor	Only Summer	A Seminis orange cauliflower that holds well in the field. Brighter when lightly cooked. A market attention getter.
20025		Graffiti ^{FI}	85 - 90	Domed	Medium, Erect	Fair	Spring, Summer	A unique deep purple hybrid from Syngenta which needs sun- light to obtain full color. Works well raw or steamed - add a small amount of lemon juice when cooking to retain the color.

CAULIFLOWER					M=1,0	000 seeds
Priced per package	250 Seeds					
Price per 1,000 seeds (M)		1M	5M	25M	100M	500M*
20021 Cheddar	27.55	84.70				
20013 DePurple	31.45	96.75	95.75	94.75	93.75	93.50
20014 Flame Star	31.45	96.75	95.75	94.75	93.75	93.50
20020 Freedom	13.05	40.05	39.05	38.05	37.05	36.80
20025 Graffiti	31.45	96.75	95.75	94.75		
20015 Minuteman	Cr	op Failur	e			
20006 Shakaris		20.45	19.80	19.35	18.90	18.80
20009 Synergy		21.60	20.95	20.50	20.05	19.95
20003 Twister		18.85	18.20	17.75	17.30	17.20
* Multiple packages may be	used to fill	orders for t	hese quant	ities.		









SAKATA

TOP BUNCH 2.0

CELERY	(
item #	▼ Variety	Maturity	Color	Plant Height	Stalk Length	Features
21003	Hudson F1	Mid season	Dark Green	26"	14-16"	A tall, compact, high yielding celery with an excellent petiole count. Excellent fusarium tolerance. A popular mid-season variety.
21001	Victoria F1	Early / main season	Medium Green	25"	14"	Tall with fleshy petioles. Quick growing with good standing ability and is slow to bolt in early plantings. Performs well under adverse spring conditions.

COLLARDS			
ltem #	▼ Variety	Days	Features
22503	Flash F1	73	A vigorous, fancy, uniform, very slow bolting hybrid that offers growers an earlier Vates type.
22501	Top Bunch 2.0 F1	70	Early maturing variety that resembles Top Bunch with wavy, lightly savoyed leaves that regrow quickly after harvest.

CELERY M=1,000 seed						
Price per 1,000 seeds (M)	1M	10M	25M			
21003P Hudson Pelleted	7.65	7.20	6.85			
21001P Victoria Pelleted	7.65	7.20	6.85			

COLLARDS				
Priced per package	1 oz.	4 oz.		
Priced per pound in these package sizes			1#	5#
22503 Flash	53.10	151.70	449.35	448.35
22501 Top Bunch 2.0	54.20	154.85	458.80	457.80

HIGH TUNNEL & PROTECTED CULTURE INDEX

В
Beets Chioggia Guardsmark
С
Cabbage Chinese
Cauliflower
Collards
Cucumbers Protected Culture

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Kale
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М
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Ρ
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Green to Red
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Other Colors Milena
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Better Boy Plus							111
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Early Girl Plus .							111
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RuBee Dawn							111
RuBee Goddess							111

HIGH TUNNEL PRODUCTION

A high tunnel is a naturally heated enclosed structure that is used to grow produce while extending the growing season and controlling agronomic conditions. Also known as "hoop houses," high tunnels are typically constructed with tubular steel frames covered by plastic, and their use is rapidly gaining popularity across the Midwest and Northeast. High tunnels significantly increase the average daily temperature of the growing environment while protecting crops from wind, rain, snow, hail, insects and diseases.

A primary advantage of high tunnels over other protection systems is that they are large enough to allow crops to be grown to full maturity and allow sufficient space for cultivation, spraying, and harvesting with the tunnels intact. By extending the season, most crops grown within a high tunnel are harvested at least a month earlier or later than field grown crops, which will earn growers a premium in the marketplace.

Which crops are typically grown within a high tunnel?

Any crop where premiums for availability of early or late fresh produce is a good candidate for high tunnel production. Crops which have an early premium such as tomatoes, peppers, cucumbers or salad greens are particularly suitable, with tomatoes being the #1 crop grown in high tunnels. We recommend choosing crops with a high yield potential and high value per unit in order to recoup your investment.

How many crops can be produced within a high tunnel per year?

At least three cropping cycles are realistic for high tunnels in most climates. Two warm season and one cool season crops within a 12 month period are feasible. With intercropping (the growing of two or more crops simultaneously), the combination of crops is almost infinite.

Planning for your high tunnel

High tunnel production carries with it a modest learning curve for growers experienced with open field production. There are several key factors that should be considered when planning to grow produce in a high tunnel.

Variety Selection

Choosing the right variety for your high tunnel is important. Varieties that perform well in the open field will not necessarily perform the same in a high tunnel. While some growers have learned how to adapt their cropping practices in order to use open field varieties in high tunnels, going this path will require some trial and error. We have highlighted several varieties in our catalog that have a proven track record in high tunnel production.

Fertility

The proper nutrient program is important since you are dealing with crops that are demanding high input to produce above average yields. If you are planting in soil, take a soil test to see what nutrients need to be added. If you're using soil bags, make sure to keep them flushed so that the salt index does not get too high.

The first priority in your fertility program is to focus on building plant structure and then concentrate on the flowering and fruit production of the plant.

For more information on specific fertility needs we suggest contacting:

ISP Technologies Inc. Gary Schafer: 785-760-0415 Ray Sawyer: 785-760-0993 www.ruppseeds.com/ISPTech

Pruning and Trellising

The training process begins as soon as the plants are planted in the soil medium. Building the structure and correct biomass of the plant is essential for optimal fruit production and disease prevention. This is one of the biggest learning curves when growing in the high tunnels because it depends on crop type and variety.

For example, growers that are growing indeterminate tomatoes will trellis their tomatoes on a one-leader system, whereas determinate varieties are trellised on a two-leader system. Pruning requirements will vary by variety depending on how vigorously that variety's plant grows. Determining the correct bio-mass of the plant for optimal fruit production is an ongoing learning curve. Consult with high tunnel crop advisors, as well as your seed rep, for advice on pruning practices for certain hybrids.

Pollination

A number of vegetable crops require pollinators such as bees to be present in order for pollination to take place and fruit to set. These crops include melons, some cucumbers and squash. If wild bees are present, they may enter the high tunnel naturally. Planting cover crops such as hairy vetch, dill and alyssum around a high tunnel will help attract pollinators. If bees are not naturally present, many growers either handpollinate or purchase pollinators for release in the high tunnel. Contact Koppert Biological at 810-632-8750 or

<u>www.ruppseeds.com/</u> <u>KoppertUS</u> if you need to purchase pollinators.

Some cucumber varieties that are targeted for high tunnel and greenhouse production are parthenocarpic, meaning that they will set fruit without pollination, and thus don't require pollinators. All the varieties listed in the cucumber protected culture section are parthenocarpic.

Air Circulation

Circulation is vital to suppress disease. Increased disease pressure comes with stagnant and humid air, which is prevalent in a high tunnel setting. Typically, high tunnels have sides that can be rolled up, but for vertical production, fans should be installed in the upper regions of the structure to provide complete air flow movement.

Pest Management and Scouting

There are certain diseases that should be scouted for on a regular basis such as: grey leaf mold (boytritus), white mold and powdery mildew. In addition, pests such as spider mites, thrips and white flies could also be present and should be included in the scouting plan. Check with your local extension agent or crop protection advisor for products that may help you control any identified disease and pest issues.

High tunnel production is growing and crop practices continue to develop as growers gain experience with production in protected culture environments. The knowledge and experience of our staff is also continuing to develop in this area and we look forward to providing support to our customers and learn from them as we grow together.

Look for this symbol in the product description tables marking items that work well in high tunnel / protected culture use.





XANADU 🗡 pg.36

CORN (Sweet)

PLANTING

Plant seeds 8 - 12 inches apart on 30 inch rows to achieve optimum yield. Seed depth should be $\frac{34}{7}$ - $1\frac{1}{2}$ " depending on soil conditions, and genetic type. Plant when soil temperature is 60° F plus. Planting in blocks will also help increase uniformity in pollination.

See "Germination Chart" on page 125 for additional information on germination rate and days to germination at various soil temperatures.

SEEDING RATE

18,000 - 22,000 seeds per acre or one seed every 8 - 12 inches. To achieve this singulation use a finger or air seed delivery system.

MANAGEMENT

Be sure to read "Insect Scouting Resources" on page 41. Scout field every 7 days to check for insect, weed, and disease pressure. For identification of weeds, insects, and diseases consult your local extension office or view the Midwest Vegetable Production Guide. <u>www.ruppseeds.com/MVPG</u>

ISOLATION

For all high quality sweet corn varieties, maintaining an isolation is required to protect the high sugar and flavor characteristics of the sweet corn as cross pollination from other types of sweet corn or different types of corn will result in starchy kernels.

SE/Synergistic types and SH2/Improved Super Sweet types should be isolated both from each other <u>and</u> from other types of corn including field corn, popcorn, and ornamental corn.

An isolation can be achieved either by distance or by a difference in maturity. Preferable isolations would require 700 - 1000 feet distance from other corns, or 10 - 14 days between pollination.

RELATIVE MATURITY

Sweet corn maturities are publicized as days to relative maturity. This information comes from supplier data, as well as our trial observations in the Midwest. Prolonged excessive heat or cool temperatures can cause maturity dates to fluctuate to some degree . Monitor your crop through the growing season in order to pick at optimum freshness.

HARVEST

Harvest sweet corn when the end kernels of the ear feel developed. Approximately 21 - 25 days after half silk. Sample sweet corn to ensure quality.

STORAGE

Pre-cool cob temperature to 50°F. After pre-cooling store at 34°F and 95% humidity.

DISEASE CODES

MDM -Maize Dwarf Mosaic NLB -Northern Leaf Blight SLB -Southern Leaf Blight

DISEASE RATINGS

R - Resistant M - Moderately Resistant MS - Moderately Susceptible S - Susceptible

USE CODES

FM - Fresh Market HG - Home Garden P - Processing S - Shipping

GROWER PREFERRED ALL-STARS

CORN

PERFORMANCE SERIES

SV9010SA (BC SH2 page 30) is the Performance Series version of EX08767143. It has the same characteristics with the addition of Roundup herbicide resistance and European corn borer, earworm and fall army worm protection. Good variety for machine harvest.

SV9014SB (BC SYN page 30) is a great mid-season corn with good flavor and eating quality, nice husk package and tip cover. Good for roadside and local markets. It also has Roundup herbicide resistance and European corn borer, earworm and fall army worm protection.

ATTRIBUTE SERIES - INSECT PROTECTED

Matriarch (BC SH2 page 32) has growers raving with its ability to deliver great September corn. Having the best earworm control and dual modes of herbicide control, Matriarch will shine as your tail end planting.

Milky Way (WH SYN page 32) A conversion of WH 0809 and Avalon with Attribute Plus traits. This variety has glufosinate herbicide tolerance as well as increased protection to European corn borer, corn earworm, armyworm, and Western bean cutworm.

SH2 / IMPROVED SUPER SWEETS

Eden RMN (WH SH2 page 40) In trial after trial, it has proven itself to be exceptional on every level.

Glacial (WH SH2 page 40) has taken the white sweetcorn market by storm with its very high eating quality, tenderness, and ear size. Strong plant type and grows well through adverse conditions, producing a consistent plant type and ear size.

Icon XR (Y SH2 page 42) has exceptional eating quality and is part of IFSI's Reserve quality class. Excellent husk protection, ear length, and tip fill under stress. A perfect choice for high quality fresh markets and roadside stands. A yellow version of Signature XR. Tolerant to HPPD/ALS.

Kickoff XR (BC SH2 page 36) Currently one of the earliest maturing higher eating quality SH2's on the market. Excellent cold soil vigor with agronomics to grow through the cold spring, producing a nice husk package, high yields, ear placement, and great eating quality for that first early market.

Nirvana (BC SH2 page 36) - For those looking for a tender, high eating quality sweetcorn, Nirvana is one that has raised the bar for eating quality for many of our customers. Good vigor with consistent plant type and quality.

Octane (BC SH2 page 38) - A new 78 day outstanding quality sweet corn with extremely tender kernels and high sugars. Octane will hold on the plant for an extended period of time. Grower feedback is very posititve on both eating quality and yield.

SH2 / IMPROVED SUPER SWEETS CONTINUED

Signature XR (BC SH2 page 36) - has phenomenal eating quality, an attractive husk, excellent holding ability in the field, strong husk cover, and great ear size. This makes Signature XR the choice for quality driven fresh markets. Tolerant to HPPD/ALS

Solstice (BC SH2 page 36) - Solstice is an early 70 day maturity. Has strong emergence, good ear size, a strong husk covered tip and exceptional tip fill. A quick snap for ease in picking and a short shank for packaging.

Xanadu (BC SH2 page 36) An offshoot of the Nirvana series, retaining exceptional eating quality and consumer appeal while bringing in a stronger plant, higher ear placement and improved disease tolerance.

Xtra Tender 274A (BC SH2 page 36) has proven to be the best cold soil tolerant variety in the SH2 category. With excellent eating quality and flavor, it does well in roadside and local markets.

SYNERGISTIC

Allure (BC SYN page 35) is an excellent replacement for Kristine for a mid-season corn. Allure has the full package: good early vigor, nice husk package and excellent flavor.

Cappuccino (BC SYN page 35) a 73 day variety with great cold soil tolerance for first and second harvest. Strong disease package to hold up against NCLB and rust as well as being a good rain gap planting in the mid to late season with later maturing varieties while still holding your markets eating quality.

Mirage (WH SYN page 40) is the white version of Essence, which makes this one of our highest eating quality white Synergistic sweet corns. Tall, strong, and healthy plant type with good flavor and field holding ability. Excellent, dark green husk package and good husk cover.

> **Montauk** (BC SYN page 35) is a proven variety with high yields and excellent flavor. It's a farmer's market favorite for yield and customer satisfaction.

Providence (BC SYN page 35) is our #1 selling bi-color Synergistic. It's the roadside growers choice for consistent sweetness and overall quality.

Temptress (BC SYN page 35) First "Quad Sweet" variety in our sweet corn lineup. Has an attractive ear with an eye-catching husk package. Moderately good cool soil emergence.

Jeff Werner Vegetable Consultant

Sweet Corn Quick Guide

Sweet corn is one of the most popular vegetables grown in the United States. Sweet corn hybrids, like many vegetable varieties, have seen improvements that enhance eating quality in the areas of sugar content, flavor, tenderness and appearance. Commercial growers also experience benefits of these improved hybrids with higher yields, disease resistance, better plant structure, insect and herbicide resistance, etc.

Genetic Types

Producing and preserving the eating quality potential of the hybrids is a key factor for the grower's success in his market. Knowing the genetic type of each hybrid is essential as the grower prepares a cropping plan. Each genetic type has some risks of cross pollination with other types, which can negatively impact eating quality in the crop produced. Maintaining an isolation between types or selecting hybrids within compatible genetic type groups will ensure that the eating quality of each hybrid has been preserved.

Our sweet corn guide includes over 100 sweet corn hybrids in the six genetic types shown here. Several of these types are related, so from a variety selection and crop planning perspective, we view them as three genetic type groups. Each group has slightly different recommendations for the other types they need to be isolated from. *Please see the genetic type groups to the right for more information on the characteristics of each group and its isolation requirements.*

Isolation

For all high quality sweet corn varieties, maintaining an isolation is required to protect the high sugar and flavor characteristics of the sweet corn as cross pollination from other types of sweet corn or different types of corn will result in starchy kernels.

SE/Synergistic types and SH2/Improved Super Sweet types should always be isolated both from each other <u>and</u> from other types of corn including field corn, popcorn, and ornamental corn.

An isolation can be achieved either by distance or by a difference in maturity. Preferable isolations would require 700 - 1000 feet distance from other corns, or 10 - 14 days between pollination.

When to Plant

We all want to get sweet corn in the ground as soon as possible. However, planting sweet corn in cold soil often leads to poor germination and vigor - leading to a disappointing sweet corn harvest.

Below is a general guide when to plant sweet corn according to **SOIL TEMPERATURE**.

60° or colder -- DON'T PLANT

60° - 70° -- DELAY PLANTING

70° or warmer -- READY TO PLANT

For detailed soil temperature information, see page 125.

SU NORMAL

- Traditional sweet corn genotype (SU gene)
- Exceptional seed vigor and germination
- Strong, old fashion corn flavor
- One day window where sugars are at their peak before converting to starch

For best flavor, isolate from SH2 and Improved Super Sweet types and dent corn, popcorn, and ornamental corn.

SE

- Sugary enhancer (SE) gene
- Sweetness, flavor, and texture are improved over SU types
 Three day window where sugars are at their peak before
- converting to starch
- Typically used for freezing

SYNERGISTIC

- Tender kernels with higher sugars than SE
- Longer shelf life than SE
- Approximately five days from when sugars are at their peak before converting to starch
- Great for local and roadside markets seeking the balance between that old fashion flavor and the high sugar corns.

For best flavor, isolate from SU, SH2, and Improved Super Sweet types and also dent corn, popcorn, and ornamental corn.

SH2 SH2 EXTRA SWEET

- Shrunken (SH2) gene raises the sugar levels and field holding ability.
- Increased shelf life improves ease of distribution
- Harder kernel gives a snap bite
- Less damage during harvest
- Ten day window where sugars are at their peak before converting to starch
- Needs warmer soils (65° F or higher) for germination

IMPROVED SUPER SWEETS

- A perfect blend of tender SE type kernel with the high sugar flavors of SH2
- Ten day window where sugars are at their peak before converting to starch
- Needs warmer soils (65° F or higher) for germination

For best eating quality, isolate from SU, SE, and Synergistic types as well as dent corn, popcorn, and ornamental corn.

EATING QUALITY RATING

The Rupp 5 Star rating is used to help growers differentiate sweetcorn varieties within each genetic class for eating quality based on sweetness, tenderness and corn flavor. These ratings are an average of our sampling scores that are compiled from multiple locations across various growing regions.

SWEET CORN MATURITY INDEX

			
BI-COLOR	Relative	C + - T	D #
	Maturity	Genetic Type	Page #
Bolt XR	67	Improved Super Sweets	36
Fastlane	67	SE	34
Latte	68	Synergistic	35
QuickStart	68	Synergistic	35 35
Sweetness Kickoff XR	68 69	Improved Super Sweets	35 36
Solstice	70	Improved Super Sweets Improved Super Sweets	36
Temptress	70	Synergistic	35
Hero XR	70	Improved Super Sweets	36
Xtra Tender 274A	71	Improved Super Sweets	36
Ignition	72	Improved Super Sweets	36
Profit	72	Synergistic	35
Quick Trip	72	Synergistic	32
Signature XR	72	Improved Super Sweets	36
Temptation	72	SE	34
Temptation II	72	SE	30
Anthem XR	72	Improved Super Sweets	36
Cappuccino	73	Synergistic	35
Anthem XR II	73	SH2	30
Superb MXR	74	Improved Super Sweets	36
Tiger Shark II	74	SH2	30
Xanadu	74 - 75	Improved Super Sweets	36
Allure	75	Synergistic	35
Ambrosia	75	SE	34
Luscious	75	SE	34
Nirvana	75	Improved Super Sweets	36
Nectar	76	Synergistic	35
Tempo XR	76	Improved Super Sweets	36
Troubadour XR	76	Improved Super Sweets	36
Cumberland	77	Improved Super Sweets	37
AP358	78	Improved Super Sweets	37
Cadence XR	78	Improved Super Sweets	37
Cosmic	78	Improved Super Sweets	38
Elysian	78	Improved Super Sweets	38
Essence	78	Synergistic	35
Matriarch	78	SH2	32
Octane	78	Improved Super Sweets	38
Revision	78	Synergistic	32
SV9014SB	78	Synergistic	30
Enchanted	79	Improved Super Sweets	38
Montauk	79	Synergistic	35
Patriarch	79	SH2	32
7143 EX08767143	80	Improved Super Sweets	38
BSS 0761	80	SH2	32
Obsession II	80	SH2	30
Skyray	80	Improved Super Sweets	38
Stamina MXR BC 0528	80 81	Improved Super Sweets	38 32
Primus	81	Synergistic Synergistic	32
SV9010SA	81	SH2	30
BC 0805	82	Synergistic	32
Providence	82	Synergistic	35
Remedy	82	Synergistic	32
Serendipity	82	Synergistic	35
Delectable	84	SE	34

WHITE	▲ Relative Maturity	Genetic Type	Page #
Leadoff MXR	69	Improved Super Sweets	40
Eden RMN	74	Improved Super Sweets	40
Diamond Mine	76	Synergistic	40
Glacial	76	Improved Super Sweets	40
Mirage	78	Synergistic	40
Starfighter II	79	SH2	30
Milky Way	82	Synergistic	32

	▲ Relative		
YELLOW	Maturity	Genetic Type	Page #
Café	68	Synergistic	42
Takeoff MXR	69	Improved Super Sweets	42
Equinox	70	Improved Super Sweets	42
Icon XR	72	Improved Super Sweets	42
Inferno	74	Synergistic	42
Bodacious RM	75	SE	42
Gold Nuggets	75	SE	42
Golden Halo	75	Improved Super Sweets	42
Gold Standard	76	Synergistic	42
Crown	78	SH2	32
Honey Select	79	Synergistic	42
Passion II	81	SH2	30
SV9012SD	83	SH2	30
Incredible R/M	85	SE	42







TIGER SHARK II









PASSION II

5V90105A	sv9012SD	3		Seminis 14SB	S		Guid		I ICO	Dur guide features tips from product selection through planting and harvest. Visit our website to download it or request a printed copy. https://www.ruppseeds.com/vegetables/sweee corn-guide
CORN		PERF	ORMAN	ICE SERII	ES ™			Ca	in be spr	ayed with Roundup Agricultural herbicide
Item #	Variety	▼ Relative Maturity	Color	Ear Size length x diameter	Kernel Rows	Rust	NLB	Use	Eating Quality	Features
SE 02138 SH2	Temptation II 🔌 🧮	72	Bi-Color	7 ½ - 8 x 1.9"	16 - 18	М	М	FM	**	Compare to Temptation. Has excellent cold soil tol ance for first or second early plantings.
03132	Anthem XR II 🗞 🧮	74	Bi-Color	8 x 1.8"	14 -18	R		FM, S	***	Eating quality and rust protection of Anthem XR al with added benefits of Roundup Ready and BT tra found in Performance Series sweetcorn. Not recon mended for first early planting.
03134	Tiger Shark II 🚺	74	Bi-Color	7 ½ x 1.9"	16 - 18	R	-	FM, S	***	Tiger Shark II is a midseason bicolor SH2 variety. Mid-early maturity, long ear with refined kernels.
03125	Starfighter II 🔌 📒	79	White	8 x 1.9"	16 - 18	-	-	FM, S	***	Starfighter II is the biotech version of SV1580SC a offers Northern Leaf Blight protection.
03080	Obsession II	80	Bi-Color	8 - 8 ½ x 1.8"	16 - 20	М	М	FM, S	***	Compare to Obsession. Straight SH2 type that eats very similar to many improved supersweets. High- yields.
03082	Passion II 🔌 📒	81	Yellow	8 x 1.7"	18 - 20	М	S	FM, S	***	Compare to Passion. High quality SH2 with excelle shipping ability. A yellow version of Obsession.
03084	★ SV9010SA	81	Bi-Color	8 x 1.9"	18 - 20	R	М	FM, S	***	Compare to 7143. Improved version of Obsession better rust package and husk package eye appeal.
03086	SV9012SD 🔌 📒	83	Yellow	8 x 2"	18-20	R	S	FM, S	**	Compare to 1336. An improved Passion with bette tip cover.
Synergistic	:									
04026	🔶 SV9014SB 🗞 🗐	78	Bi-Color	7.8 x 1.9"	18 - 20	R	М	FM	****	Maintains the same great taste and eating quality other high quality synergistic varieties.
		featuring the MAX [®] agricu	e unique weed Iltural herbicio	et corn varieties a l control benefits les. Be sure to rea ate with no other	of Roundup ad the label a	Weathe Ind con	rMAX®	and Round	up Power-	



Seminis[®] Performance Series[™] sweet corn hybrids; another innovation that performs all season long.

ations. Key Management Practices to Maximize Quality and Yield:

Growing sweet corn might be something your family has done for generations. Or maybe it's the beginning of a new tradition. Either way, when you plant Seminis* Performance Series* sweet corn, you and your family will enjoy a great-tasting ear that you can eat fresh from the field. Performance Series* sweet corn contains the same great Roundup Ready* technology and protection from select above- and below-ground insect pests that row crop farmers are already familiar with.

Documents Required for Performance Series corn

In order to purchase Performance Series sweet corn, you must have a valid Bayer Technology License. If you are licensed, please include your license number on the order form in the space provided.

If you are not licensed you may visit <u>traits.bayer.ca/en/stewardship</u> or call 1-888-283-6847 to request an application, or we can mail you a 2025 Bayer Technology/Stewardship Agreement to fill out prior to us shipping your seed. Allow 3 - 4 weeks for mailed application to be processed.

- Scouting for Corn Earwom should begin prior to first silk & continue through harvest
- Use traps to monitor & count adult moths in the area
- · Spray programs will be needed to maximize marketable yield

INCECT DESIGNANCE // LIEDDICIDE TOLEDANCE

Additional information can be found in Bayer's Technology Use Guide found at the following link: <u>www.ruppseeds.com/BayerTUG</u>

Note: Performance Series sweet corn packages cannot be repackaged or resold. Customers need to be licensed and must be the operator/grower for all fields where the seed will be planted. Not available for purchase or use in certain counties of Oregon and Idaho.

CORN PERFORMANCE SER	IES™		M=1,000 seeds
Price per 1,000 seeds (M)	2.5M	25M	100M
SE			
02138 Temptation II Cruiser		18.27	18.27
SH2			
03132 Anthem XR II Cruiser	21.85	20.59	20.59
03080 Obsession II Cruiser	21.95	20.70	20.70
03082 Passion II Cruiser		20.29	20.29
03125 Starfighter II Cruiser		20.09	20.09
03084 SV9010SA ^{Cruiser}	22.05	20.80	20.80
03086 SV9012SD Cruiser		20.00	20.00
03134 Tiger Shark II Cruiser		20.50	20.50
Synergistic			
04026 SV9014SB Cruiser	19.70	18.57	18.57



Cruiser' seed treatment insecticide guards against a broad spectrum of early season sucking and chewing insect pests in beans and sweet corn. By protecting the crop from the start, growers can improve stand establishment, enhance plant vigor and increase yield potential. <u>http://www.syngenta-us.com/crop-protection/seed-treatment/products</u>



Cruiser^{*} treated items are highlighted in purple in the price tables.

Look for this symbol in the product description tables marking Cruiser treated items.

	Seminis Performance Series™	Syngenta Attribute® I	Syngenta Attribute® Plus	Syngenta Attribute® II
Key Sweet Corn Pest				
European Corn Borer	E	E	E	E
Corn Earworm	F*	F*	E*	E*
Fall Armyworm	E	G	E	E
Black Cutworm			VG	VG
Additional Above-Ground P	ests			
Southwestern Corn Borer	х		Х	Х
Sugarcane Corn Borer	х		х	х
Common Stalk Corn Borer	Х		х	х
Southern Cornstalk Corn Borer	Х		х	х
Beet Armyworm			х	х
Dingy Cutworm			х	х
Western Bean Cutworm			Х	х
Additional Below-Ground P	ests			
Western Corn Rootworm	х			
Northern Corn Rootworm	Х			
Mexican Rootworm	Х			
Protein	Cry1A.105, Cry2Ab	Cry1Ab	Vip3A, Cry1Ab	Vip3A, Cry1Ab
Herbicide Tolerance	Glyphosate	Glufosinate	Glufosinate	Glyphosat Glufosinat
* Depending on ear worm population Learn more by reading "Insect Scout			g and spraying m	ay be needed

Key: E= excellent, VG= very good, F= Fair, G= good



BC 0528

BC 0805





BSS 0761



CORN	CORN		ATTRIBUTE® Insect Protection							e sprayed with glufosinate herbicide.	
ltem # Synergistic	Variety	▼ Relative Maturity	Color	Ear Size length x diameter	Kernel Rows	Rust	NLB	Use	Eating Use Quality Features		
04207	BC 0528 🕅 143	81	Bi-color	0 /4 / 1.7	16 - 18	-		FM, HG	****	Bt version of Primus.	
04019	BC 0805 ᠌ 1 🗛	82		8 x 1.9"	16 - 18			FM	***	A rust resistant, Bt version of Providence.	
		Attribute® varieties are resistant to Liberty herbicides. They may be sprayed with conventional corn herbicides as well as Liberty (glufosinate) herbicid to read the label and confirm that the chemical you are spraying is 100% glufosinate with no other active ingredients.									

	ATTRIE	ATTRIBUTE® PLUS Insect Protection						Can be sprayed with glufosinate herbicide.		
Variety	▼ Relative Maturity	Color	Ear Size length x diameter	Kernel Rows	Rust	NLB	Use	Eating Quality	Features	
Crown 🔌 143	78	Yellow	8 x 2"	16	R		FM, S	****	An Attribute Plus that is a strong uniform plant with uniform ears.	
Patriarch 🗞 1	79	Bi-color	8 x 2"	16	R	-	FM, S	****	Augmented supersweet variety with excellent adapt ability. Possesses girthy ear with great tip fill. Robus Attribute Plus package.	
BSS 0761 🕅 143	80	Bi-color	8 x 1.8"	16 - 18	-	-	FM, S	****	Offers exceptional eating quality and is ideal for the high end shipper and local markets. Has built-in insect protection and tolerance to Liberty herbicide through the Attribute trait stack.	
Milky Way	82	White	8 ¼ x 1.8"	16	R	-	FM, HG	***	Offers improved insect resistance and tolerance to Liberty herbicide through the Attribute Plus trait stack.	
	Crown 🔌 143 Patriarch 🔌 143 BSS 0761 🔌 143	Variety Relative Maturity Crown (2) 143 Patriarch (2) 143 BSS 0761 (2) 143	Variety Relative Maturity Color Crown (2) 143 78 Yellow Patriarch (2) 143 79 Bi-color BSS 0761 (2) 143 80 Bi-color	Variety Relative Maturity Color Ear Size length x diameter Crown (a) 143 78 Yellow 8 x 2" Patriarch (a) 143 79 Bi-color 8 x 2" BSS 0761 (a) 143 80 Bi-color 8 x 1.8"	Variety Relative Maturity Color Ear Size length x diameter Kernel Rows Crown (*) 143 78 Yellow 8 x 2" 16 Patriarch (*) 143 79 Bi-color 8 x 2" 16 BSS 0761 (*) 143 80 Bi-color 8 x 1.8" 16-18	Variety Relative Maturity Ear Size Length x diameter Kernel Rows # Crown (*) 143 78 Yellow 8 x 2" 16 R Patriarch (*) 143 79 Bi-color 8 x 2" 16 R BSS 0761 (*) 143 80 Bi-color 8 x 1.8" 16-18 -	Variety Relative Maturity Ear Size Length x diameter Kernel Homestrik Homestrik Crown (a) 143 78 Yellow 8 x 2" 16 R Patriarch (a) 143 79 Bi-color 8 x 2" 16 R BSS 0761 (a) 143 80 Bi-color 8 x 1.8" 16 - 18 - -	Variety Relative Maturity Color Ear Size length x diameter Kernel H H Ear Size length x Crown (*) 143 78 Yellow 8x 2" 16 R FM, S Patriarch (*) 143 79 Bi-color 8x 2" 16 R - FM, S BSS 0761 (*) 143 80 Bi-color 8x 1.8" 16-18 - - FM, S	Variety Relative Maturity Color Ear Size length x diameter Kernel Rows H H Eating Ouality Crown 143 78 Yellow 8 x 2" 16 R FM, S ***** Patriarch 143 79 Bi-color 8 x 2" 16 R - FM, S **** BSS 0761 143 80 Bi-color 8 x 1.8" 16 - 18 - - FM, S ****	

to read the label and confirm that the chemical you are spraying is 100% glufosinate with no other active ingredients.

CORN		ATTRIBUTE® II Insect Protection						Can be sprayed with glufosinate and glyphosate		
ltem #	Variety	▼ Relative Maturity	Color	Ear Size length x diameter	Kernel Rows	Rust	NLB	Use	Eating Quality	Features
SH2										
03225	★ Matriarch � 🖬	78	Bi-color	7.75 x 2"	16 - 18	R		FM, S	****	A strong Attribute II plant that will do well at higher plant populations.
Synergis	tic									
04055	Quick Trip 🗞 🛺	72	Bi-color	7.5 x 1.8"	14 - 16	-	-	FM	***	A bi-color, TripleSweet type, it boasts a dark green husk with nice flags. Maximum planting population 20,000 per acre.
04057	Revision 🔌 💶	76-78	Bi-color	8 x 1.8"	14 - 16		-	FM, S	***	Attrbute II, TripleSweet, Remedy replacement.
04043	Remedy 🕅 143 & 144	82	Bi-color	8 ½ x 1.9"	16	R	-	FM, HG	***	Remedy is a BC 0805 type with improved insect resistance. *An additional waiver needs to be signed for this variety.
										inate} herbicides and glyphosate herbicides. Be sure to read the vith no other active ingredients.









REVISION



Attribute[®]**Plus**

link: www.ruppseeds.com/Attribute

REMEDY



Attribute I



Attribute Insect protection

High Quality, Picture Perfect Ears

Attribute*, Attribute Plus and Attribute II trait stacks from Syngenta are a viable crop strategy for sweet corn growers throughout the country. Commercially grown since 1998, Attribute sweet corn seeds provide a high level of aboveground protection against European corn borers and corn earworms throughout the growing season. With Attribute sweet corn, growers have another option for harvesting outstanding yields of high-quality sweet corn that meets market needs. When managed in accordance with the recommendations outlined in the stewardship agreement, Attribute sweet corn can be a valuable addition to your crop management strategy for many years to come.

Attribute Plus sweet corn seeds further extends the high-yielding potential for sweet corn growers with added Vip3A. This additional trait features greater spectrum of insect control providing a high level of above-ground protection against European corn borers and corn earworms. In addition to improved insect control, Attribute Plus also features tolerance to glufosinate herbicide for added field advantage.

Documents Required for ALL Attribute corns:

If you purchase Attribute sweet corn, you are required by the EPA to fill out and sign a Stewardship Agreement for your farm. If you already have an Attribute license, please include your license number on your order form in the space provided.

CORN ATTRIBUTE [®] Insect Protection	M	=1,000 seeds
Price per 1,000 seeds (M)	25M	100M
Synergistic		
04207 BC 0528 Bi-Color Cruiser	16.99	16.99
04019 BC 0805 Bi-Color Cruiser	16.35	16.35

CORN ATTRIBUTE II® Insect F	Protection		M=1,000 seeds
Price per 1,000 seeds (M)	2.5M	25M	100M
SH2			
03225 Matriarch Bi-Color Cruiser	22.80	21.50	21.50
Synergistic			
04055 Quick Trip Bi-Color Cruiser	22.40	21.12	21.12
04043 Remedy Bi-Color Cruiser	22.35	21.08	21.08
04057 Revision Bi-Color Cruiser	22.35	21.08	21.08

CORN ATTRIBUTE PLUS® Insect		M=1,000 seeds	
Price per 1,000 seeds (M)	2.5M	25M	100M
SH2			
03101 BSS 0761 Bi-Color Cruiser		19.49	19.49
03230 Crown Yellow Cruiser	22.80	21.47	21.47
03108 Patriarch Bi-Color Cruiser		20.84	20.84
Synergistic			
04042 Milky Way White Cruiser	22.25	20.95	20.95



This insecticide guards against a broad spectrum of early season sucking and chewing insect

ests in beans and sweet corn. Cruiser* treated items are either highlighted in this purple color or feature the Cruiser® symbol.



You may also obtain your Attribute license by visiting

The Attribute Grower Stewardship Agreement can be found on page 143. https://www.agcelerate.ca or by calling 1-866-505-7176.

The introduced Attribute II trait stack continues the Syngenta tradition of providing high performance traits to sweet corn growers, and now it has the

added power of Vip3A - a unique mode of action proprietary to Syngenta. The

combination of Vip3A with Cry1Ab, the protein found in Attribute sweet corn

corn borer, corn earworm and fall armyworm and Western bean cutworm.

Liberty (glufosinate) herbicides and glyphosate herbicides.

varieties, offers excellent control of key yield-robbing insects including European

Attribute II® varieties may be sprayed with conventional corn herbicides or either

Additional information on the Attribute products can be found at the following

Attribute' is a registered trademark of a Syngenta Group Company. LibertyLink',

Liberty' and the Water Droplet logo are registered trademarks of Syngenta.









LUSCIOUS TSW





-	SAVE WITH CASH DISCOUNTS	Nov
	The sealing you and a the man	Dec
	The earlier you order the more you'll receive!	Janı
	,	Feb

See page 130 for all of the details.

November7%
December6%
January 5%
February 4%
March
April

EATING QUALITY RATING *****

Our Rupp 5 Star sweet corn eating quality ratings are based on **real-world tastings** in multiple locations across various growing regions.

Sweet corn is rated on **sweetness, tenderness,** and **corn flavor** and then listed to give you a guide as to what many consider to be a good tasting sweet corn. Participants range from growers to fresh market operators to the general consumer.

CORN		BI-CO	BI-COLOR SE							
Item #	Variety	▼ Relative Maturity	Ear Height	Ear Size length x diameter	Kernel Rows	Rust	NLB	Use	Eating Quality	Features
02189	Fastlane Ò	67	14"	7 x 1.7"	14 - 16	М	S	FM, HG	**	A first early variety with good cold soil vigor, very attractive ear.
02137	Temptation Ò	72	18"	8 x 1.8"	16	S	S	FM	**	A Seminis product for the first early slot. Has excellent cold soil emergence.
02126	Ambrosia	75	20"	8 x 2"	16	S	М	FM, HG	***	A bi-color version of Bodacious with good vigor.
02178	Luscious Ò	75	15"	8 x 1.9"	16 - 18	М	М	FM, HG	***	A hybrid that produces an attractive blunt ear on an excellent plant package.
02132	Delectable	84	26"	9 x 2.1"	18	М	М	FM, HG	****	Bi-color version of Incredible. Large ear, dark green husk.

CORN	BI-COLOR se	M=1,000 seed						
	Priced per pound in these package sizes	1#	5#	25#	50#	100#*		
02126 Ambrosia		21.80	20.55	20.20	19.80	19.50		
02132 Delectable		21.75	20.50	20.15	19.75	19.45		
Р	rice per 1,000 seeds (M)	2.5M	10M	25M	100M	500M*		
02189 Fast	lane ^{Cruiser}	11.30	10.55	10.10	9.65	9.55		
02178 Luscious Cruiser		8.10	7.35	6.90	6.45	6.35		
02137 Tem	ptation Cruiser	10.55	9.80	9.35	8.90	8.80		
* Multiple packages may be used to fill orders for these quantities.								

CORN BI-COLOR Syner	gistic	M=1,000 seeds						
Price per 1,000 seeds (M)	2.5M	10M	25M	100M	500M*			
04009 Allure Cruiser	14.85	14.10	13.65	13.20	13.10			
04044 Cappuccino Cruiser	14.55	13.80	13.35	12.90	12.80			
04039 Essence Cruiser	14.80	14.05	13.60	13.15	13.05			
04032 Latte Cruiser	15.00	14.25	13.80	13.35	13.25			
04021 Montauk Cruiser	13.90	13.15	12.70	12.25	12.15			
04052 Nectar Cruiser	14.15	13.40	12.95	12.50	12.40			
04210 Primus Cruiser	14.20	13.45	13.00	12.55	12.45			
04214 Profit Cruiser	13.75	13.00	12.55	12.10	12.00			
04014 Providence Cruiser	11.25	10.50	10.05	9.60	9.50			
04020 QuickStart Cruiser	14.20	13.45	13.00	12.55	12.45			
04013 Serendipity Cruiser	10.30	9.55	9.10	8.65	8.55			
04047 Sweetness Cruiser	13.95	13.20	12.75	12.30	12.20			
04049 Temptress Cruiser	14.00	13.25	12.80	12.35	12.25			
* Multiple packages may be used to fill orders for these quantities.								





QUICKSTART

SENEC



TEMPTRESS

HM HARRIS MORAN







CAPPUCCINO



ALLURE



NECTAR

ESSENCE

MONTAUK





PROVIDENCE



SERENDIPITY

CORN		BI-COLOR Synergistic - plant them with SE's												
ltem #	Variety	▼ Relative Maturity	Ear Height	Ear Size length x diameter	Kernel Rows	Rust	NLB	Use	Eating Quality	Features				
04032	Latte Ò	68	20"	7 ½ - 8 x 1.7"	12 - 16	-		FM	**	First early variety with excellent ear length in this class. Very good eating corn with a dark green husk package.				
04020	QuickStart 🔊	68	22"	8 x 1.8"	16	R	М	FM, HG	****	QuickStart is an exciting addition to our early maturity line up. It has a strong plant and large ear as well as excellent eating quality for its season. QuickStart has strong emergence and vigor and is a great choice for your early sweet corn plantings.				
04047	Sweetness Ŵ	68	18"	8x1.8"	14-16	IR	IR	FM, HG	**	Sweetness begins with excellent emergence and vigor and continues with a sturdy plant that produces a nice ear with solid tip fill. It has a protective package that makes a nice presentation for the consumer.				
04049 🔸	Temptress Ò	70	16"	7 ¾ x 2"	14 - 16	R	М	FM, HG	****	First "Quad Sweet" variety in our sweet corn lineup. Has an attractive ear with an eye-catching husk package. Moderately good cool soil emergence.				
04214	Profit ல	72	22"	8 x 1.8"	14	М	М	FM, HG	***	A proven variety with a track record of satisfying cus- tomers, Profit has very large ears with attractive flags, good husk cover and tip fill.				
04044 🗡	Cappuccino Ò	73	17"	7 ½ - 8 x 1.9"	16	М	М	FM, HG	***	Superb eating quality. Plant mid to late season or for rain gap filler. Excellent disease package.				
04009 🗡	Allure Ò	75	25"	8 x 1.8"	16	R	R	FM, HG	****	A hybrid with good early vigor. Nice husk package with great eating quality and flavor.				
04052	Nectar Ò	76	18"	8 ¼ x 1.9"	14 - 16	-	MR	FM, HG	****	Very good eating quality. Excellent ear size for roadside markets. High quality package includes dark husk color and flags. Stalk has solid standability.				
04039	Essence Ò	78	18"	8 x 1.8"	16 - 18	М	М	FM	****	Excellent eating quality. High row count for a refined kernel. Compare to Providence with earlier maturity.				
04021 🗡	Montauk Ò	79	18"	8 x 1.8"	16 - 20	S	М	FM	****	A widely adapted hybrid with good vigor, high yields and excellent flavor.				
04210	Primus Ò	81	18"	8 x 2"	14 -16	М	S	FM	****	A proven TripleSweet PLUS variety from Syngenta with approximately 15% higher sugar than Providence. Performs well under plastic and in late plantings.				
04014 🗡	Providence Ò	82	18"	8 ½ x 1.9"	16 - 18	R	S	FM	****	A rust resistant version of Serendipity with excellent eating quality.				
04013	Serendipity Ò	82	18"	8 x 1.9"	16 - 18	S	S	FM, HG	****	A variety with an added supersweet kick for extended shelf life and higher eating quality.				















XTRA TENDER 🗡 274A

IFSI)



IGNITION

CORN		BI-CO	LOR SH	2 and Impro	ved Supe	r Swe	eets			
ltem #	Variety	▼ Relative Maturity	Ear Height	Ear Size length x diameter	Kernel Rows	Rust	NLB	Use	Eating Quality	Features
03245	Bolt XR ல	67	16"	7.25 x 1.8"	14-18	R	М	FM	****	A first early planting, bi-color fresh market hybrid, with first class eating quality. Excellent husk coverage and tip fill. A dark green husk package and sound ear size make Bolt XR an ideal hybrid for roadside stands.
03038	★ Kickoff XR Ò	69	28"	8 ¼ x 1.9"	16-18	М	MS	FM, S	****	Impeccable eating quality for early in the season. Very good white to yellow kernel contrast. Strong tip fill. Tolerant to HPPD/ALS.
03109	★ Solstice Ò 🍝	70	20"	7.5 x 1.8"	16	-	М	FM	****	Solstice is an early 70 day maturity. Has strong emer- gence, good ear size, a strong husk covered tip and exceptional tip fill. A quick snap for ease in picking and a short shank for packaging.
03037	Hero XR Ò	71	23"	7 ¾ x 1.8"	14-16	R	MS	S	**	Excellent early variety with great husk protection. Kernels fill beautifully to form a very attractive ear early in the season. Tolerant to HPPD/ALS.
03174	Xtra Tender 274A 🕅	71	23"	8 x 2"	18 - 20	S	S	FM, HG	****	An IFSI bi-color hybrid with excellent cold soil vigor and fantastic eating quality. Has medium long husk protec- tion. Tolerant to HPPD/ALS.
03233	Ignition Ò	72	23"	8" x 1.8"	16 - 18	IR	IR	FM, HG	****	Ignition is a 72 day bi-color with strong cold soil emer- gence, a tender bite and consistent high yield potential with a high quality ear.
03215	★ Signature XR Ò	72	27"	8 x 1.8"	16-18	R	-	FM	****	It has phenomenal IFSI Reserve eating quality. An attractive husk, excellent holding ability in the field, strong husk cover, and great ear size make Signature XR the choice for quality driven fresh markets.
03003	Anthem XR Ò	73	24"	8 x 1.8"	16 - 20	R	М	FM, S	***	Excellent yield potential and better than average lodging tolerance. Superb eating quality. Great all season long.
03246	Superb MXR Ò	74	28"	8 X 1.9"	16-18	R	MS	FM, S	****	Superb MXR's large ear size, improved husk protection and ability to handle difficult growing seasons make it an excellent, high -yielding, choice for mid-season markets.
03119	🛨 Xanadu े 🍝	74 - 75	25"	8 x 2"	16 - 18	R	R	FM, HG	****	Xanadu, being part of the Nirvana series, incorporates a stronger plant, higher ear placement and improved disease resistance while maintaining exceptional eating quality, consumer appeal, and great vigor.
03025	🔶 Nirvana 🔕 🍝	75	24"	8 x 1.8"	16	М	R	FM, HG	****	Combination of great vigor and emergence along with fantastic flavor and texture.
03123	Troubadour XR Ò	76	27"	8 x 2"	16-18	R	MS	FM, HG	****	Has excellent husk protection and exceptional eating quality.
03122	Tempo XR Ò	76	26"	8 x 2"	16-20	R	MS	FM	***	Tempo XR has excellent husk protection and consistent tip fill across varying environmental conditions. Tempo XR has a great ear size for mid-season roadside and fresh markets.
			•		•	•	•	•		More varieties on the next page>

C





ANTHEM XR



SUPERB MXR

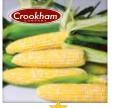
IFSI



EDEN Pg 40 ELYSIAN Pg 38 EQUINOX Pg 42 NEW GOLDEN HALO Pg 42 NEW

NIRVANA Pg 36 SOLSTICE Pg 36 XANADU Pg 36





NIRVANA

TROUBADOUR XR





AP358



CADENCE XR

CORN		BI-CO	LOR SH	2 and Impro	oved Supe	r Swe	ets			
ltem #	Variety	▼ Relative Maturity	Ear Height	Ear Size length x diameter	Kernel Rows	Rust	NLB	Use	Eating Quality	Features
03102	Cumberland Ò	77	30"	8 x 1.9"	16-18	R		FM	***	Prolific variety with attractive ear and husk package. Sweet flavor and fantastic texture. Ideally grown for retail stands and farm markets.
03008	ар358 📎	78	20"	8 x 1.9"	16-18	М	М	FM	****	LIMITED SUPPLY The AP in the name refers to Augmented PLUS. With easy snap, good tip fill and attractive husk package.
03009	Cadence XR 📎	78	25"	7.75 x 2"	16 - 20	R	MS	FM, S	****	Cadence XR is a full season high eating quality hybrid with ideal ear size for roadside markets. Cadence XR has an attractive husk package with good flag leaves and resistance to common rust.
		••••			••••		•••••			More varieties on the next page>

CORN BI-COLOR SH2 Extra Sy	weet &	Improv	ved Sup	oer Swe	ets
Price per 1,000 seeds (M)	2.5M	10M	25M	100M	500M*
03199 7143 EX 08767143 Cruiser	13.00	12.25	11.80	11.35	11.25
03003 Anthem XR Cruiser	15.30	14.55	14.10	13.65	13.55
03007 AP358 Cruiser	16.45	15.70	15.25	14.80	14.70
03245 Bolt XR Cruiser	16.50	15.75	15.30	14.85	14.75
03218 Cadence XR Cruiser	15.45	14.70	14.25	13.80	13.70
03248 Cosmic	14.95	14.20	13.75	13.30	13.20
03102 Cumberland Cruiser	13.20	12.45	12.00	11.55	11.45
03255 Elysian Cruiser	16.45	15.70	15.25	14.80	14.70
03039 Enchanted Cruiser	14.30	13.55	13.10	12.65	12.55
03037 Hero XR ^{Cruiser}	14.65	13.90	13.45	13.00	12.90
03233 Ignition Cruiser	14.95	14.20	13.75	13.30	13.20
03038 Kickoff XR Cruiser	15.85	15.10	14.65	14.20	14.10

CORN BI-COLOR SH2 Extra S	weet &	Improv	ed Sup	oer Swe	ets					
Price per 1,000 seeds (M)	2.5M	10M	25M	100M	500M*					
03025 Nirvana ^{Cruiser}	15.95	15.20	14.75	14.30	14.20					
03235 Octane Cruiser	14.95	14.20	13.75	13.30	13.20					
03215 Signature XR Cruiser	16.15	15.40	14.95	14.50	14.40					
03201 Skyray ^{Cruiser}	11.90	11.15	10.70	10.25	10.15					
03109 Solstice Cruiser	15.50	14.75	14.30	13.85	13.75					
03247 Stamina MXR Cruiser	15.95	15.20	14.75	14.30	14.20					
03246 Superb MXR Cruiser	15.55	14.80	14.35	13.90	13.80					
03122 Tempo XR Cruiser	15.90	15.15	14.70	14.25	14.15					
03123 Troubadour XR Cruise	16.50	15.75	15.30	14.85	14.75					
03119 Xanadu ^{Cruiser}	16.20	15.45	15.00	14.55	14.45					
03174 Xtra Tender 274A Cruiser	14.50	13.75	13.30	12.85	12.75					
* Multiple packages may be used to fill ord	* Multiple packages may be used to fill orders for these quantities.									







OCTANE 🗡





Y.

7143 EX08767143



STAMINA MXR

EATING QUALITY RATING *****

Our Rupp 5 Star sweet corn eating quality ratings are based on **real-world tastings** in multiple locations across various growing regions.

Sweet corn is rated on **sweetness, tenderness,** and **corn flavor** and then listed to give you a guide as to what many consider to be a good tasting sweet corn. Participants range from growers to fresh market operators to the general consumer.

CORN	CORN		LOR SH	2 and Impro	ved Supe	er Swe	eets			Pricing on page 37	
ltem #	Variety	▼ Relative Maturity	Ear Height	Ear Size length x diameter	Kernel Rows	Rust	NLB	Use	Eating Quality	Features	
03248	NEW Cosmic Ò	78	24"	8-8.25 X 2"	18-20	R	R	FM, HG	****	This large eared variety will provide ample sweet corn. Cosmic has multigenic rust resistance, and strong toler- ance to northern corn leaf blight. Do not use early.	
03255	🖭 Elysian Ò 🎺	78	24"	8 x 1.9"	16-18	R	М	FM, HG	****	Elysian has an excellent husk and disease package. Remarkable flavor with a long harvest window.	
03235	🔶 Octane Ò	78	26"	8 x 1.8"	16 - 18	IR	-	FM, HG	****	A 78 day outstanding quality sweet corn with extremely tender kernels and high sugars. Octane will hold on the plant for an extended period of time. Do not use early.	
03039	Enchanted Ŵ	79	28"	8 x 2"	18 - 20	М	М	FM, HG	****	All the flavor and texture you would expect from an augmented farm market hybrid. Plump, sweet kernels.	
03199	7143 EX08767143 衸	80	26"	8 x 1.9"	18 - 20	R	М	S	***	An improved version of Obsession that has a better rust package, eye appeal and eating quality.	
03201	Skyray Ò	80	26"	8x1.8"	18-20		М	FM	****	Skyray offers a nice large ear with excellent tenderness and eating quality. Similar to Obession.	
03247	Stamina MXR Ò	80	28"	8 X 2"	16-18	R	MS	FM, HG	****	A late season, fresh market variety with exceptional eating quality, strong tip fill, ideal ear size, and excellent disease package.	

MANAGING INSECTS IN SWEET CORN

Corn Ear Worm is the greatest threat to sweet corn growers across the Midwest and Northeast - creating the potential for our customers to lose profits. We have heard reports from growers and university researchers that not all insecticides are created equal and do not provide adequate control that is needed. Labels often do not communicate its effectiveness on potential resistant insect populations. Each growing region may have varying degrees of resistance. It is best to contact local extension personnel or chemical retailers to see what works best in your growing region. It is a best management practice to always rotate modes of actions.

We have put together a "Sweet Corn Growing Guide" (information below) to help growers monitor and combat this profit robbing insect. We also have a helpful section titled "Insect Scouting Resources" on page 41. Please feel free to call in to request your copy of our "Sweet Corn Growing Guide" to find other helpful tips and ways to control other Lepidoptera that can cause severe damage to sweet corn such as: European corn borer, fall armyworm and Western bean cut worm.

MONITORING EUROPEAN CORN BORER AND CORN EARWORM

One of the keys to successfully managing European corn borers and corn earworms on sweet corn is to determine when the insects are active. European corn borers can be monitored effectively with blacklight traps and field observations, and corn earworms can be monitored with pheromone traps. When moths are being caught in the traps, it means they are laying eggs.

Corn borer eggs are laid on leaves, usually on the undersides, in the region of the ear. Larvae feed on the leaves and later may migrate to the ears (if present).

Corn earworm moths lay their eggs directly on green silks. The larvae that hatch from those eggs will follow the silks down into the tips of the ears.

Because these two insects' egg laying behavior differ, control strategies also differ. Corn borers can be controlled by spraying during the late whorl, tasselling, and silking stages. The migrating larvae should contact a lethal dose of insecticide while moving to the ear zone. Corn earworms must be controlled by directing sprays at the silks so larvae will immediately contact the insecticide after hatching.

For corn borers, treat during the late whorl stage if 20 percent or more of the plants show larval feeding. The presence of large numbers of moths in light traps also justifies treatment. One application during the late whorl stage, followed by additional treatments every five days up until seven days of harvest, usually provides adequate control.

For corn earworms, treatment is justified if fresh green silks are present and moths are being caught in pheromone traps. In general, the higher the moth catches, the shorter the interval between sprays. If fewer than five moths are being caught per night, a five-day spray interval should be adequate. As moth catches approach 50 to 100 per night, a two- to three-day spray interval would be more appropriate. Determining the spray interval exactly depends on many factors, including how much damage you can tolerate, the crop's value, and the cost and effectiveness of the insecticide. Stop treating for corn earworms when 90 percent of the silks are brown.

Obviously, growers should not treat separately for these two pests. Some of the insecticides recommended here are effective against both species. Choose insecticides that are more effective against the particular pest that is most prevalent at the time of application. If both pests are present, choose an insecticide that will adequately control both.

INSECT PROTECTED VARIETIES

Insect protected sweet corn varieties such as Syngenta's Attribute, Attribute Plus, and Attribute II Insect Protected corn and the Performance Series from Seminis should be considered as they will allow the grower to decrease the number of sprays that need to be applied. While these products have a built in resistance to some insects, they do not eliminate the need for insect scouting and occasional spraying. Using these varieties in combination with a reduced spray program will lead to great results. The extra investment in seed cost pays off in reduced spray and fuel costs as well as less time in the fields, making insect protected varieties an interesting alternative.

Wire traps and lures are available from several sources. A quick search on-line will guide you to many retailers including Gempler's.

INSECT SCOUTING RESOURCES

www.ruppseeds.com/InsectForecast

Learn more about current corn insect pressure.

www.ruppseeds.com/NYSweetCorn

This is a link to the NY Sweet Corn Trap Network Report. It also contains a mountain of information on best management practices for sweet corn growers. They also have several fact sheets on individual pest as well as videos on how to set up and maintain your own Trap and Monitoring system.



GROW YOUR BEST SWEET CORN!

Our guide features tips from product selection through planting and harvest. Visit our website to download it or request a printed copy.

https://www.ruppseeds.com/vegetables/sweetcorn-guide







LEADOFF MXR





CORN	J	WHITE	WHITE Synergistic - plant them with SE's										
ltem #	Variety	▼ Relative Maturity	Ear Height	Ear Size length x diameter	Kernel Rows	Rust	NLB	Use	Eating Quality	Features			
03249	Diamond Mine 헧	76	30"	8" X 1.8"	16-18		М	FM	****	Has exceptional eating quality and glossy white kernels This tall, sturdy plant has good ear height and features excellent tip fill and husk protection. White version of Nectar.			
04016	🔶 Mirage Ò	78	18"	8 x 1.8"	16 - 18	М	М	FM	****	Excellent eating quality. High row count for a refined kernel. High yield potential. White version of Essence.			

COR	N	WHITE	SH2 E	xtra Sweet &	Improve	d Su	per S	weets		
ltem #	Variety	▼ Relative Maturity	Ear Height	Ear Size length x diameter	Kernel Rows	Rust	NLB	Use	Eating Quality	Features
03243	Leadoff MXR Ò	69	23"	7 ¼-8 x 1.9-2"	16 - 18	R	М	FM, HG	****	A first early hybrid with a high kernel row count and good kernel color. Has a great disease package and a very good husk protection. Leadoff the season right with this fresh market and roadside variety. Tolerant to HPPD/ALS.
03224	🛨 Eden RMN े 🐠	74	26"	8 x 1.75 - 2"	16 - 18	R	R	FM, HG	****	Eden RMN has an incredible flavor with key improve- ments: stronger disease package, slightly higher ear height, and a taller plant. It offers a higher level of dependability and will have strong marketshare for growers.
03100	🔶 Glacial 🔕	76	26"	8 x 1.9"	16 - 18	-	-	FM, P	****	Has incredible white kernels that stay white! Very good tip fill and eating quality. Fine addition to a white corn planting program.

CORN WHITE Synergistic M=1,00										
Price per 1,000 seeds (M)	2.5M	10M	25M	100M	500M*					
03249 Diamond Mine Cruiser	14.10	13.35	12.90	12.45	12.35					
04016 Mirage Cruiser	13.55	12.80	12.35	11.90	11.80					
* Multiple packages may be used to fill orders for these quantities.										

CORN WHITE SH2 Extra Sweet & Improved Super Sweets										
Price per 1,000 seeds (M)	2.5M	10M	25M	100M	500M*					
03224 Eden RMN Cruiser	15.75	15.00	14.55	14.10	14.00					
03100 Glacial Cruiser	13.20	12.45	12.00	11.55	11.45					
03243 Leadoff MXR Cruiser	16.40	15.65	15.20	14.75	14.65					

* Multiple packages may be used to fill orders for these quantities.

2024 SWEET CORN TRIAL REPORT

This report highlights the top varieties that have been observed this past year. However, it seems that whenever I talk top varieties with growers, our customer service team, outside vegetable consultants, or suppliers, we always talk about multiple year performance. If we lived in a bubble that would work but we don't, we have wet years, dry years, and cold spells. Each year offers a different mix of challenges. That is why it's important to grow what we sell and know what we sell as we trial new products alongside older products that we have been offering to our sweet corn customers.

The sweet corn trials are broken into four main categories. Cold soil trial, Main Synergistic, Main Sh2, and Late Planting. Each planting offers a unique set of challenges to you as the grower. This year, the cold soil plot went in about as perfect as you could have wanted (April 10). The soil conditions were dry, but the ground was still cool (59 degrees at 2"). It took 13 days for the first spikes to emerge from the soil. A few of our check varieties, or "steady Eddies," are Kickoff (introduced 2017), XT 274A (introduced in 2005), Solstice, and Eden RMN. In the Sh2's and for the Synergistics, they are Temptress and Cappuccino (introduced in 2016). We consider them industry standards when it comes to cold soil emergence. A few new ones that have performed well over the last few seasons are Superb MXR, Bolt XR, and Xanadu. New varieties that growers should be sampling are Equinox, the yellow companion to Solstice, and the bi-color Revision. I was pleasantly surprised by the performance of Revision. However, I would like to continue to test Revision before I would recommend that someone plants that one early.

When it came time to plant my main season plots, the plant date on the Synergistic plot was May 23, and May 31 for the

Sh2 plot. The office was open 23 days in the month of May and seven of them had measurable precipitation coupled with the wettest April on record. The planting window was very small. We also observed that the soil temperature actually went backwards. This caused slower than normal emergence and poor emergence where the sprayer drove after planting. The "steady Eddies" in the main Synergistic plot were Temptress again, Allure, Montauk, Primus, and SV9014. I believe that growers will finally get a good look at QuickStart this year. I think you will like it, especially teamed with Allure. In the Sh2 main plot, the "steady Eddies" were Nirvana (introduced in 2015), Xanadu, Signature, American Dream, and Eden RMN. Some of the newer ones that I believe should be considered for this next year are Elysian, Equinox, Golden Halo, Cosmic, and Octane. Yes, that's right, yellow corn! Maybe you can set yourself apart in a bicolor world by reintroducing these new exceptional eating quality yellows.

The last planting of sweet corn was made on July 1. This planting is designed to see how hybrids perform under the stress of the late season fungal diseases such as northern corn leaf blight, rust, and tar spot. Two of the superstars in the plot were Octane and Cosmic.

We also participated in two university trials as well as 61 on-farm trials to verify performance across a broad range of growing practices and regions.

As we start to plot and plan for the 2025 season, we have some new promising experimental varieties that have a lot of potential and we look forward to sharing our results with you.

by: Pete Dinius - Product Development Lead

INSECT SCOUTING RESOURCES

www.ruppseeds.com/InsectForecast Learn more about current corn insect pressure.

www.ruppseeds.com/NYSweetCorn

This is a link to the NY Sweet Corn Trap Network Report. It also contains a mountain of information on best management practices for sweet corn growers. They also have several fact sheets on individual pest as well as videos on how to set up and maintain your own Trap and Monitoring system.



SWEET CORN PRODUCTION RESOURCES www.ruppseeds.com/SCPestID This is a resource from the Great Lakes Vegetable

Working Group in addition to some of the leading researchers in the vegetable industry. It helps identify profit taking weeds and insects, and discusses best management practices for sweet corn.

www.ruppseeds.com/UMassSC

This page from the University of Massachusetts offers information about multiple sweet corn pests and diseases.

www.ruppseeds.com/uoiScout

Developed by Rick Weinzierl this link goes into discussing the difference between traps and economics of scouting.









INCREDIBLE R/M





INFERNO



GOLD STANDARD

CORN		YELLC	YELLOW SE											
ltem #	Variety	▼ Relative Maturity	Ear Height	Ear Size length x diameter	Kernel Rows	Rust	NLB	Use	Eating Quality	Features				
02055	Bodacious RM	75	20"	8 x 1.8"	18	R	М	FM, HG	***	A rust resistant Bodacious, same flavor, superior plant and yield. Give this a try.				
02007	Gold Nuggets 💔	75	24"	8 x 2"	20	М	М	FM, HG	****	The best eating SE, large eared, superior holding. Good for freezer corn.				
02056	Incredible R/M	85	30"	9 x 2"	18	R	М	FM, HG	***	Rust resistant and MDM resistant Incredible.				

CORN		YELLO	YELLOW Synergistic - plant them with SE's										
ltem #	Variety	▼ Relative Maturity	Ear Height	Ear Size length x diameter	Kernel Rows	Use	Eating Quality	Features					
04045	Café Ò	68	15"	7.75 x 1.7	14	FM, HG	***	Yellow version of Latte.					
04008	Inferno Ò	74	18"	8 ¼ x 1.8"	14 - 16	FM, HG	***	Has excellent husk cover with a dark green plant and flag leaves, creamy flavor with the right balance of texture.					
04004	Gold Standard 🔊	76	28	8 x 1.8"	18	FM, HG	****	Gold Standard sets the standard for eating quality in the Yellow Quad class. The strong emergence and plant style also make this variety stand out from its competitors.					
04012	Honey Select Ò	79	18"	8 ½ x 2"	18 - 20	FM, HG	***	A Syngenta AAS winner with similar genetic type to Serendipity only yellow kernels. Easy to grow, good vigor, and high sugars.					

CORN		YELLO	YELLOW SH2 Extra Sweet & Improved Super Sweets							
Item #	Variety	▼ Relative Maturity	Ear Height	Ear Size length x diameter	Kernel Rows	Rust	NLB	Use	Eating Quality	Features
03223	Takeoff MXR 🔊	69	28"	8 x 1.9"	16 - 18	R	MS	FM, S	****	Takeoff MXR has an excellent disease package and seedling vigor for an early hybrid. Takeoff MXR has an impressive ear shape and size. Get an early Takeoff with this variety in fresh markets. Tolerant to HPPD/ALS.
03254 NEW	Equinox 🔊 🍝	70	22"	7.5-1.8"	16-18	S	М	FM, HG	****	An early yellow that brings an ease to harvest and packag- ing. It has nice husk protection, a good-looking ear, strong tip fill and short shank. It's known for having the best eating quality and seedling vigor in its class.
03124 🗙	Icon XR 🔕	72	26"	8 x 1.9"	16 - 18	R	MS	FM	****	Icon has exceptional eating quality and is part of IFSI's Reserve quality class. Excellent husk protection, ear length, and tip fill under stress. A perfect choice for high quality fresh markets and roadside stands. A yellow version of Signature XR. Tolerant to HPPD/ALS.
03252 NEW	Golden Halo Ò 🍝	75	24"	8 X 2"	16-18	R	М	FM, HG	****	An excellent variety similar to the bi-color, Nirvana, in taste and emergence. It has an improved husk package and a higher ear placement.





TAKEOFF MXR





ICON XR 🗡



GOLDEN HALO









04004 Gold Standard Cruiser

04012 Honey Select Cruiser

04008 Inferno Cruiser

04045 Cafe Cruiser

CORN YELLOW Synergistic



14.60 13.85

14.05 13.30

8.40

13.05 12.30 11.85

9.15

Price per 1,000 seeds (M) **2.5M 10M**

* Multiple packages may be used to fill orders for these quantities.

INDIAN ART RED FIRE

25M

13.40

12.85

7.95

M=1,000 seeds

500M*

12.85

12.30

7.40

11.30

100M

12.95

12.40

7.50

11.40

CORN YELLOW	SE
	Priced per pound

Priced per pound in these package sizes	1#	5#	25#	50#	100#*		
02055 Bodacious RM	21.55	20.30	19.95	19.55	19.25		
02007 Gold Nuggets	19.70	18.45	18.10	17.70	17.40		
02056 Incredible R/M	21.60	20.35	20.00	19.60	19.30		
* Multiple packages may be used to fill orders for these quantities.							

CORN YELLOW SH2 Extra Sweet & Improved Super Sweets										
Price per 1,000 seeds (M)	2.5M	10M	25M	100M	500M*					
03254 Equinox Cruiser	15.60	14.85	14.40	13.95	13.85					
03252 Golden Halo Cruiser	15.70	14.95	14.50	14.05	13.95					
03124 Icon XR ^{Cruiser}	16.15	15.40	14.95	14.50	14.40					
03223 Takeoff MXR ^{Cruiser}	16.40	15.65	15.20	14.75	14.65					
* Multinla nadvanas maulas usad ta fill a										

03223 Takeot	T MXR ^{Cluser} 16.40	15.65	15.20 1	4.75	14.65	
* Multipl	e packages may be used to fill orders for th	nese quantiti	es.			
CORN		OR	NAMEN	ITAL		
ltem #	▼ Variety	Days	Features			
05535	American Way 💔	115	A very lar	rge eared	10 - 13'	variety that has become popular with fresh market growers.
05536	Earth Tones	105	Has mar	velous sh	ades of I	lue and green as well as traditional reds and oranges. Can be ground into cornmeal.
05507	Fiesta	100	A variety of many		ed by the	University of New Hampshire. Early maturing with 8" ears and kernels that are variegated and
05101	Indian Art Red Fire 🗈 🕐	105				ian Art" series. Comprehensive hybrid red stalk and red husk package. Kernels are deeper red Butcher. 8 - 10" ear.
•••••••	••••••	•••••	-			

See page 45 for Ornamental Popcorn and page 66 for Ornamental Sorghum / Broomcorn

CORN ORNAMENTAL COR			M=1,0	00 seeds	
Priced per package	4 oz.				
Priced per pound in these package sizes		1#	5#	25#	50#*
05535 American Way	7.15	27.85	18.55	18.30	18.05
05536U Earth Tones Untreated	8.25	32.20	21.45	21.20	20.95
05507 Fiesta	5.90	22.95	15.30	15.05	14.80
05101 Indian Art Red Fire	8.45	33.00	22.00	21.75	21.50



CORN (Popcorn)

EATING QUALITY

No popcorn varieties are hulless. Eating quality is a measurement of flavor, kernel tenderness and hulls that are thin and break and disperse during popping. Thicker hulled hybrids retain the hull in the popped product and tend to remain in your teeth after eating. Factors influencing popcorn quality include kernel moisture and expansion ratio, processing procedures, home storage and handling. Good popcorn should provide at least 98% popped kernels with well under 2% unpopped kernels. Proper care at the processing level helps to assure this.

EATING QUALITY RATING

Good to Poor

EXPANSION

Refers to the increase in volume of unpopped corn after it is popped. To illustrate, if a given volume of unpopped corn expanded to a 40 rating when popped, the volume increase was 40 times. All data is collected on the standard test popper.

LODGING

The percentage of stalks broken below the ear at harvest time.

MUSHROOM SHAPE

The popped shape that is the most desirable for manufacturing caramel corn etc. due to tougher more durable shape after popping. Always less desirable as eating corn.

YIELD

Pounds of shelled corn adjusted to 13.5% moisture.

STORAGE

To maintain the best quality popcorn, store at 13 - 14.5% moisture content.

C



ORDERS OVER \$350 ARE SHIPPED FREE!



SAVE WITH CASH DISCOUNTS

The earlier you order the more you'll receive!

See page 130 for all of the details.

November/%
December6%
January 5%
February 4%
March
April

R400MR

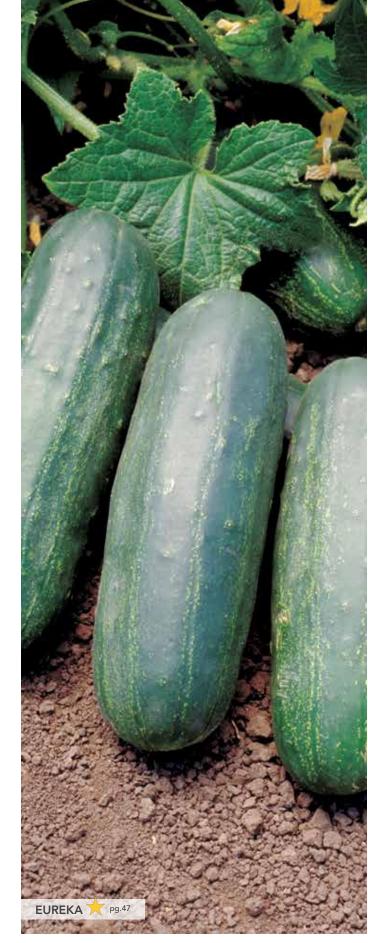
POPCORN									
ltem # Commerc	▼ Variety cial Varieties	Color	Days	Lodging	Yield per acre	Expansion	Eating Quality	Mushroom	Features
06041	R400MR FI	Yellow	103	2%	5000 lbs. +	34	Good	80%	This popcorn has very high yield potential. Grows on a sturdy stalk with high resistance to common rust and Grey Leaf Spot. Intermediate resistance to Goss' Wilt. Vibrant orange kernels pop into mushroom flakes.
06039	R98114W F1 Ò	White	105	2%	5000 Ibs. +	45	Good	0	An excellent eating-quality white popcorn that yields as well as many yellow hybrids. Strong stalks and roots help resist lodging. It provides high resistance to common rust and intermediate resistance to Goss' Wilt.
06040	R997 F1 Ò	Yellow	105	2%	5000 lbs. +	46	Good	0	A mid-season butterfly popcorn. It has long cylinder - shaped ears with easy shelling large, orange kernels and improved stalk strength. It provides high resistance to Grey Leaf Spot and intermediate resistance to Common Rust, Northern Corn Leaf Blight, and Drought.
06027	Ruby Red F1	Red	100	5%		38	Good	0	A true breeding, glossy burgundy red hybrid with no white kernels. Has stalk strength, yield and expansion equal to the best white hybrids. One of the best eating popcorns.
06026	Shaman's Blue F1	Dark Blue	105	5%		43	Good	0	Dark blue popcorn hybrid. Has glossy dark blue kernels, large 8" ears, high expanding, and tender flakes. Good stalk strength.

CORN		OR	ORNAMENTAL POPCORN						
ltem #	▼ Variety	Days	Features						
06010	Firecracker	95	A miniature variety with a red stalk and good cold soil emergence. Plants are tall and strong with good tip cover and very little shank. High yields of 5" ears which can be used for both ornamental and popping purposes. Stalks are approximately 7.5 feet tall.						
06006	Little Indian	100	A popular variety with 4 - 5" multi-colored ears. Also very tender eating.						
05510	Seneca Mini Indian	105	A selection of miniature Indian corn with 5 - 6" ears. Attractive for ornamental uses.						

CORN POPCORN M=1,000 se									
Price per 1,000 seeds (M)	2.5M	10M	25M	100M					
Commercial Varieties									
06041 R400MR	8.25	7.75	7.50	7.25					
06039 R98114W White	5.90	5.40	5.15	4.90					
06040 R997 Yellow	5.90	5.40	5.15	4.90					
06027 Ruby Red	11.40	10.90	10.65	10.40					
06026 Shaman's Blue	10.40	9.90	9.65	9.40					
* Multiple packages may be used to fill orders for these quantities.									

CORN ORNAMENTAL POPCORN	
Priced per package 4 oz.	

Ртісеа рег раскаде	4 oz.				
Priced per pound in these package sizes		1#	5#	25#	50#
06010 Firecracker	10.80	29.55	19.70	19.45	19.20
06006 Little Indian	10.50	28.75	19.15	18.90	18.65
05510 Seneca Mini Indian	6.50	17.70	11.80	11.55	11.30



CUCUMBERS

PLANTING

Direct seed $\frac{1}{2}$ " - 1" soils with 60°F+ temperatures. Row spacing should range from 30" - 36" apart. Space plants 12" apart in the row.

See "Germination Chart" on page 125 for additional information on germination rate and days to germination at various soil temperatures.

MANAGEMENT

Scout fields weekly to make sure weed, insect, and disease pressure are kept in check.

HARVEST

Harvest every other day. Slicing cucumbers should be picked when diameter is approximately 2". Cucumbers should be approximately 7 - 8" long and have a smooth surface. Pickling cucumbers should be 3" long by 1" wide when ready to pick.

STORAGE

Store at 50 - 55° F and 90 - 95% humidity to ensure long shelf life.

DISEASE CODES

A - Anthracnose ALS - Angular Leaf Spot Cca - Corynespora Cassiicola Ccu - Cladosporium Cucumerium CMV - Cucumber Mosaic Virus CVYV - Cucumber Vein Yellowing Virus DM - Downy Mildew PM - Powdery Mildew PRSV - Papaya Ringspot Virus S - Cucumber Scab TLS - Target Leaf Spot WMV - Watermelon Mosaic Virus ZYMV - Zucchini Yellow Mosaic Virus

COLOR CODES

DG - Dark Green G - Green MG - Medium Green MDG - Medium Dark Green VDG - Very Dark Green W - White

HABIT TERMS

GY - Gynoecious Refers to all female sex expression when grown under ideal environmental conditions. Various stresses can cause more male flowers.

MO - Monoecious Refers to sex expression; having both male and female flowers on the same plant.

P - Parthenocarpic Refers to the tendency of a plant to set fruit without pollination.

PF - Predominately Female Refers to the blossoms produced by the plant as predominately female.







KATRINA







SUPER MAX



SUPREMO

CUCI	JMBERS	PROTE	PROTECTED CULTURE 💁							
Item #	▼ Variety	Season	Plant	Length	Color	Disease	Features			
23569	Camaro F1	Spring / Autumn	Vigorous	13 - 16"	DG	РМ	Fruit exudes excellent color and shape. Has intermediate resistance to powdery mildew.			
23576	Corinto F1	Spring / Autumn	Vigorous	8 - 10"	DG	CMV, CVYV, PM	A very consistent dark green, cylindrical protective culture cucumber with a very low cull rate. Produces tight sets on a compact plant with excellent shelf life both on and off the plant.			
23574	Excelsior F1	Spring / Autumn	Compact / Vigorous	4 - 5 "	DG	Cca, CMV, CVYV, PM	An excellent pickling variety for full-season production. Open, vigorous plant with medium to dark green fruit.			
23571	Katrina F1	Spring / Autumn	Compact / Vigorous	6 "	DG	Ccu, CMV, CVYV, PM	High quality small fruit that are extremely uniform. Early maturing fruit main- tains high quality and production levels throughout the harvest season.			

CUCL	JMBERS	PICk	LING					
Item #	▼ Variety	Days	Habit	Plant	L/D Ratio	Color: Spine- Fruit	Disease	Features
23005	Citadel 🕫 🍉	50	GY	Medium	3.1	W-DG	A, ALS, CMV, DM,PM, S	Industry-leading disease package includes intermediate resistance to Downy Mildew. Excellent option for machine harvest due to concentrated fruit set.
23582	🖭 Corentine 🕫 🏷	45-55	Р	Medium	3	DG	PM, CCU, CMV	Good early yield potential with high grading, firm fruit and a small cavity. Shown reliable quality under difficult growing conditions. Gherkin type that can be used for snacking.
23014	🛨 Eureka 🕫 🏷	53	MO	Compact	3.1	W-DG	A, ALS, CMV, PM, PRSV, S, WMV	A monoecious hybrid with unique disease tolerances. Compare with your current favorite.
23008	Super Max F1 渗	40-45	MO	Vigorous	3.1	MG	CMV, PRSV, WMV, ZYMV, Cca, Ccu	Thick skin with small seed cavity that is resistant to target leaf spot. High quality fruit ideal for fresh and processing markets.
23003	Supremo 🕫 🍉	43	MO	Vigorous	3	W-DG	A, ALS, CMV, PM, PRSV, S, WMV, ZYMV	High quality dark green fruit with thick skin and a small seed cavity. Ideal for processing or fresh market. Can be staked or on the ground.
23025	Vlasstar 🕫 🌘	52	Р	Vigorous	3	W-MDG	A, ALS, CMV, PM, S	A medium dark, blocky pickle that picks over multiple harvests.

CUCUMBERS PROTECTED CULTURE								
e 100 Seeds								
138.75								
43.20								
27.50								
43.25								

CUCUMBERS PICKLING				M=1,00	00 seeds
Priced per package	100 Seeds				
Price per 1,000 seeds (M)		1M	5M	15M	75M*
23005 Citadel FI400	3.30	12.20	10.45	9.45	8.70
23582 Corentine FI400	4.60	25.70	23.95	22.95	22.20
23014 Eureka FI400	3.90	18.30	16.55	15.55	14.80
23008 Super Max FI400		19.80	18.05	17.05	16.30
23003 Supremo FI400		19.80	18.05	17.05	16.30
23025 Vlasstar FI400		10.35	8.60	7.60	6.85
* Multiple packages may be used to fill	orders for the	se quantitie	es.		

A B C E G H K Μ O P R S I W







COBRA



DARLINGTON



RACEWAY

CUCI	UMB	BERS	SLIC	ERS					
Item #		▼ Variety	Days	Habit	Plant	L/D Ratio	Color	Disease	Features
23502		Brickyard 🕫 🌑	50	GY	Vigorous	8"	DG	A, ALS, CMV,DM, PM, PRSV, S, WMV, ZYMV	Brickyard is an early maturing variety which features a strong multi-virus resistance package that includes downey mildew resistance.
23512	*	Bristol 🛙 🍉	54	GY	Moderately Vigorous	8 ¼ x 2 ¼"	DG	A, ALS, CMV, DM, PM, PRSV, S, ZYMV	Early maturing, second generation hybrid with intermediate resistance to downy mildew plus an improved disease package when compared to other cucumbers. High number of fancy fruit that allow the grower to potentially experience higher yields.
23004		Cobra 🕫 🌑	60	GY	Vigorous	9.5 x 2"	DG	A, ALS, CMV, PM, PRSV, S, WMV, ZYMV	Productive hybrid with an excellent disease package and out- standing fruit quality. Can be used on open ground or plastic production. Holds its length well even during periods of stress.
23568		Darlington ^{F1} 🍅	62	GY	Vigorous	8 - 9 x 2"	DG	A, ALS, CMV, PM, PRSV, S, TLS, WMV, ZYMV	A Seminis multi-virus tolerant variety that holds up well under foliar disease pressure. Consistent yield of select fruit that are straight and have excellent color. Maintains optimum length under Northeast conditions.
23505	*	Raceway F1 🏷	54	GY	Vigorous	8 1⁄2"	DG	A, ALS, CMV,DM, PM, PRSV, S, WMV, ZYMV	Raceway is dark green with uniform color on vigorous vines. With a high multi-virus resistance package it's good for late season planting. Raceway maintains its length where heat stress might be a factor.

CUCUMBERS SLICERS					M=1,00	00 seeds	CUCUMBERS SLICERS				M=1,00	00 seeds
Priced per package	100 Seeds						100 Priced per package Seeds					
Price per 1,000 seeds (M)		1M	5M	15M	75M*	350M	Price per 1,000 seeds (M)	1M	5M	15M	75M*	350M
23502 Brickyard FI400		19.50	18.00	17.00	16.25	15.25	23568 Darlington FI400 7.90	28.55	27.05	26.05	25.30	24.30
23512 Bristol F1400	5.65	20.50	19.00	18.00	17.25	16.25	23505 Raceway FI400 5.50	19.95	18.45	17.45	16.70	15.70
23004 Cobra FI400		25.15	23.65	22.65	21.90	20.90	* Multiple packages may be used to fill order	s for thes	e quantitie	S.		

GROWER PREFERRED ALL-STARS

HOT HOUSE

For a protected culture slicing cucumber variety, take a look at **Corinto**. With its beautiful uniform fruit and plant health this American Slicer will set itself apart in your high tunnel or greenhouse.

Searching for just the precise pickling cucumber variety to use in a greenhouse production this season? **Excelsior** may be just the variety you desire. At optimal harvesting length (4 - 5"), Excelsior has a tremendous pack out of high quality fruit. Even for your hard to satisfy patrons, Excelsior is something to be thrilled about.

PICKLING

Still continuing to rise, **Eureka** remains our #1 pickling variety, both in the number of customers that purchase and amount of seed sold. Eureka's high disease package and ideal length to diameter ratio provide an ideal product for grower and consumer alike. For tried and true, use Eureka.

CUCUMBERS

SLICER

Given the number of customers and volume **Bristol** is a grower preferred slicer with downy mildew tolerance. Bristol yields a high percentage of fancy grade fruit due to plant health from multivirus tolerance and the latest commercial strain of downy mildew tolerance. Use Bristol in late season plantings when downy mildew pressure is the highest.

Released last year, **Raceway** got the green flag with growers. It has proven it can hold its own when it comes to diseases and producing nice marketable fruit for fresh market. Raceway has a vigorous vine and has a high multi-virus resistance package. Working all season long in multiple planting slots Raceway will not leave you in the pits next season.

> **Pete Dinius** Product Development





GAUDI













NADIA

EGGPLANT						
ltem #	▼ Variety	Days	Plant Size	Fruit Shape	Color	Features
24505	Epic F1	64	36"	Oval	Purple Black	Commercial grower variety. Resistant to Tobacco Mosaic Virus.
24526	Fairy Tale ^{F1}	50	18 - 24"	Slender	Lavender	An AAS winner. Fruit are bright lavender, up to 5" long, good to eat, on a dwarf plant. Can be grown in pots, planters or on your patio.
24502	Gaudi ^{F1}	80	30 - 36"	Obovate	Deep Purple, Black	Long oval shaped fruit with a bright green calyx. Usually the calyx is spineless, but under certain conditions a small spines can develop. The fruit is firm and is grown on a medium-tall, upright strong growing bush. It can be grown indoor and outdoor with good results.
24517 NEW	Ghost Story	63		Round Oval	White	Smooth, firm, and heavy. It has a refined small cap that is usually spineless. Flesh is dense, bright white, and slow to develop seeds. Excellent early and continuous yields.
24525	Hansel F1	55	18"	Slender	Purple	AAS winning Japanese eggplant from Seminis. Fruit are dark glossy purple, born in finger-like clusters and have a bright green calyx. Yields are much higher than similar sized Little Fingers.
24524	Nadia F1	70	24 - 30"	Oval Long	Black	An attractive purple black hybrid from Vilmorin. Fruit are 9" long by 4½" around. Colors early, sets under cool conditions with a durable plant for frequent pickings.
24521	Night Shadow F1	75	35"	Teardrop	Glossy Black	Hybrid, with fruit that are large teardrops; dark glossy black with a good blossom end scar.
24516	Santana ^{F1}	80	30"	Elongated Oval	Glossy Black Purple	A high yielding hybrid from Syngenta that performs where it matters most; yield, size and quality! One of the best for heat tolerance without fruit fading problems. Has reduced spines to prevent fruit scar.

ENDIV	E / ESCAROLE	CHI	CORY
ltem #	▼ Variety	Days	Features
Endive - n	arrow, finely cut, curly leaves		
25010	Tres Fine Maraichere	45	A finely cut, lovely green and very fine baby endive with outstanding flavor for the truly French gourmet salads. A petite, fern-like mound.

EGGPLANT				M=1,0	00 seeds
Priced per package	500 Seeds				
Price per 1,000 seeds (M)		1M	5M	25M	100M
24505 Epic	8.25	13.15	12.05	11.65	11.10
24526 Fairy Tale	48.10	76.90	75.80	75.40	74.85
24502 Gaudi	22.25	35.60	34.50	34.10	33.55
24517 Ghost Story	48.10	76.90	75.80	75.40	74.85
24525 Hansel	48.10	76.90	75.80	75.40	74.85
24524 Nadia	19.85	31.75	30.65	30.25	29.70
24521 Night Shadow	10.40	16.60	15.50	15.10	14.55
24516 Santana	13.20	21.05	19.95	19.55	19.00

ENDIVE / ESCAROLE CHICORY	M=1	,000 seeds
Priced per 1,000 seeds in these package sizes	10M	100M
25010U Tres Fine Maraichere Untreated	0.55	0.50





GOURDS

PLANTING

Direct seed in soils that are above 70° F. Plant gourds $\frac{1}{2}$ " - 1" deep. For a general rule of thumb, plant seed the depth of three times the thickness of the seed. Plant spacing varies depending on fruit size. For small and miniature gourds plant at approximately 5 - 10 sq. ft. per plant. For large gourds plant them at 30 sq. ft. per plant.

See "Germination Chart" on page 125 for additional information on germination rate and days to germination at various soil temperatures.

MANAGEMENT

Scout fields every 7 days to ensure crop health. Look for insect, weed, and disease pressure. The first three weeks focus on weeds and insect pressure. Then focus on disease pressure. For weed, insect, and disease identification and treatments consult the Midwest Vegetable Production Guide:

www.ruppseeds.com/MVPG or your local extension. Place pollinators in field to ensure maximum fruit set.

HARVEST

Harvest when fruit have developed deep vibrant color or when plants start to die down. Clean gourds of dirt, then dip them in a 5% chlorine solution to ensure long shelf life.

STORAGE

Place gourds in a dry place that will have good air circulation to prevent rotting.



The early-season insect protection offered by FarMore Technology can prevent or eliminate damage caused by cucumber beetles. Additionally, the insecticide component has shown a remarkable ability to improve plant vigor and growth under certain environmental conditions.

This patented vigor effect leads to more advanced crop development and superior performance that is especially important when gourd crops are under stress. <u>www.ruppseeds.com/fi400</u>



FarMore' treated items are highlighted in the green in the price tables.

Look for this symbol in the product description tables marking FarMore^{*} treated items.



MARTINHOUSE



LARGE SPECKLED APPLE



SPECKLED SWAN



AUTUMN WINGS LARGE SWAN



AUTUMN WINGS MEDIUM



AUTUMN WINGS BLEND

GOUR	DS	LAG	LAGENARIA SICERARIA					
ltem # ▼ Variety		Days	Features					
26034	Birdhouse Martinhouse	100	A purified strain of the original birdhouse gourd. 10" diameter by 15" tall. Tan, smooth and hard shelled.					
26002	Bushel	120	12 - 18" diameter with fruit weighing from 30 - 100 lbs. Excellent for arts and crafts when cured.					
26035	Extra Long Handled Dipper	120	A dipper gourd with a 3 - 4' long handle. Grow on trellis for straight gourds.					
26033	Large Speckled Apple	120	A large true apple shaped gourd 4 - 5" in diameter and 6 - 7" tall. Great for table decorations.					
26025	Miniature Bottle	100	A miniature sized bottle gourd, 2" in diameter by 4" long.					
26027	Speckled Swan	100	A large, crookneck gourd whose tip looks like a swan's head; 14 - 18" long with a 6" base.					

GOURDS			0	Pricing is on page 52
ltem #	▼ Variety	Days	Features	
26501	Autumn Wings Large Swan 7 🏷	A unique gourd of many colors with wings, warts, and the fruit shape of a s diameter with a neck up to 12" long. A grand addition to our other fancy o trade.		
26502	Autumn Wings Medium ᡝ 🏷	100	A unique gourd of many colors with the fruit shape of a spoon but with win with a neck up to 6" long. A grand addition to our other fancy ornamental	
26503	Autumn Wings Small 🌮 🏷	100	A unique gourd of many colors with wings and fruit shape of a swan pear. neck up to 4 - 5" long. Has great potential for the shipper if the wings can	
26510	Autumn Wings Blend 💔 🏷	100	A blend of 50% Autumn Wings Small, 25% Autumn Wings Medium, and 2	25% Autumn Wings Large.
			More varieties on the next page>	

GOURDS LAGENARIA SICERARIA						
Priced per package	1 oz.	4 oz.				
Priced per pound in these package sizes			1#	5#	25#	Se
26034 Birdhouse Martinhouse	11.15	26.15	74.15	73.15	72.15	3
26034U Birdhouse Martinhouse ^{Untreated}	11.15	26.15	74.15	73.15	72.15	3
26002U Bushel Untreated**	14.35	33.65	95.45	94.45	93.45	1
26035 Extra Long Handled Dipper	11.55	27.15	76.95	75.95	74.95	4
26033 Large Speckled Apple	12.65	29.65	84.05	83.05	82.05	2
26025 Miniature Bottle	11.90	27.95	79.20	78.20	77.20	5
26027 Speckled Swan	11.45	26.90	76.25	75.25	74.25	2
** 15 seeds for \$5.00						













RUPP FANCY WARTED

GOURDS			PEPO				
Item #		▼ Variety	Days	Features			
26042		Galaxy of Stars 🕫 🌈 🏷	90 - 100	An exciting Rupp hybrid gourd mixture in the shape of a 5 point star in many colors that can be mechanically washed. A unique gourd for table decorations.			
26009	*	Gizmo 💔 🏷	90 - 100	A Rupp winged gourd mix, which is unique for its bush plant type, offers fruit with rich colors including dark green, orange, yellow, light green, and white. This hard-shelled variety yields fruit that are 3 - 5" tall by 6 - 8" wide at the tip of the wings. Is sure to be another great addition to your fall decoration lineup.			
26012		Hoargarth 🕡 🏷	90	A distinctive orange and dark green gourd that will add texture to your fall displays. The wart covered fruit are 7" wide by 5" high and grow on an intermediate bush plant.			
26043		Lunch Lady	110	A one-of-a-kind large warted gourd. It produces an array of shapes & colors with fruit sizes from 3-10 lbs, all hard shells with warts.			
26026		Rupp Fancy Warted 💔	100	LIMITED SUPPLY A mixture of warted gourds with shapes like spoons, pears, and rounds; all warted and very colorful.			

GOURDS PEPO					M=1,0	00 seeds
Priced per package	250 Seeds					
Price per 1,000 seeds (M)		1M	5M	25M	55M	Seeds /lb.
Autumn Wings 26501 Large Swan	10.70	30.50	29.50	28.50	27.50	7,300
Autumn Wings 26501 Large Swan R400	13.00	37.10	36.10	35.10	34.10	7,300
Autumn Wings 26501U Large Swan Untreated	10.70	30.50	29.50	28.50	27.50	7,300
Autumn Wings 26502 Medium	10.70	30.50	29.50	28.50	27.50	8,000
Autumn Wings 26502 Medium FI400	13.00	37.10	36.10	35.10	34.10	8,000
Autumn Wings 26502U Medium Untreated	10.70	30.50	29.50	28.50	27.50	8,000
Autumn Wings 26503 Small	10.70	30.50	29.50	28.50	27.50	7,800
Autumn Wings 26503 Small FH400	13.00	37.10	36.10	35.10	34.10	7,800
Autumn Wings 26503U Small Untreated	10.70	30.50	29.50	28.50	27.50	7,800
Autumn Wings 26510 Blend	10.70	30.50	29.50	28.50	27.50	8,000
Autumn Wings 26510 Blend ^{FI400}	13.00	37.10	36.10	35.10	34.10	8,000

GOURDS PEPO					M=1,0	00 seeds
Priced per package	250 Seeds					
Price per 1,000 seeds (M)		1M	5M	25M	55M	Seeds /lb.
26042 Galaxy of Stars	34.35	98.10	97.10	96.10	95.10	10,000
26042 Galaxy of Stars FI400	36.65	104.70	103.70	102.70	101.70	10,000
26042U Galaxy of Stars Untreated	34.35	98.10	97.10	96.10	95.10	10,000
26009 Gizmo FI400	43.50	124.15	123.15	122.15	121.15	6,600
26012 Hoargarth FI400	42.05	120.05	119.05	118.05	117.05	3,500
26026 Rupp Fancy Warted	5.40	15.35	14.35	13.35	12.35	9,400

GOURDS PEPO					M=1,0	00 seeds
Priced per package	1 oz.	4 oz.				
Priced per pound in these package sizes			1#	5#	25#	Seeds /lb.
26043 Lunch Lady	23.40	55.05	160.65	157.65	154.65	3,300





AYA, PROSPERA® DMR

RED, PROSPERA® NEW DMR



EMILY



EVERLEAF EMERALD TOWERS



EVERLEAF GENOVESE



GENOVESER

HERBS		FOR THE PROFESSIONAL GROWER Pricing on page 55						
tem #	▼ Variety	Annual / Perennial	Features					
27041	vny Mildew Resistant - DMR Aya, Prospera® DMR	A	New generation of downy mildew protected basil. This semi-compact unique and e and field production. Its leaves are dark, shiny, and flat-spoon shaped. Expect a ma Maturity is about 40-55 days from sowing.					
27042 NEV		A	A downy-mildew resistant basil hybrid.					
Basil								
27035	Emily	A	A compact Genovese type basil with medium to large leaves. Because of improved summer production and year round in hot climates; works well in the field or gree Fusarium.	shelf life Emily is recommended for nhouse. Excellent performance against				
27019	Everleaf Emerald Towers	A	This proved to be the best basil in our trials. Flowers up to 10 to 12 weeks later than standard basil. Well-branched variety with dark green, glossy foliage and short internodes. Makes a beautiful towering plant with huge harvest potential that stay tidy for many uses, including in-ground, container gardens and hydroponics. Traditional Genovese flavor is perfect for eatin fresh in caprese salad or chopped fresh in recipes.					
27006	Everleaf Genovese	A	The first basil bred for season-long performance and continual harvesting. Flowers up to 8 weeks later than standard basil. Compact, highly branched plant perfect for in-ground and potted plant production. Robust Genovese flavor, perfect for pes and other sauces. Intermediate resistance to downey mildew and resistant to Fusarium.					
27033	Genoveser	A	A special, high yielding strain, dark green, cup shaped selection, glossy leaf, recom	mended for field production.				
27012	Italian Large Leaf	A	Leaves are broad, oval and crinkly with spicy flavor. Used in perfumes, Italian seaso	onings, and soups.				
27017	Lemon	A	Pleasing citrus aroma, excellent in vinegars or with fish.					
27030	Siam Queen	A	An improved cultivar of ornamental and aromatic Thai basil. Has 3" leaves, distinct addition with flowers for an edible landscape accent. Has an exotic flavor.	ive purple stems, and is an eye-catching				
Catnip								
27509	Catnip	Р	A vigorous growing mint loved by cats. Grayish green leaves have a strong mint-lik	e flavor.				
Chervil								
27005	Chervil	А	The fine cut, deep green leaves look like a delicate, lacy version of parsley. Flavor is fish, seafood, eggs or in salads. At its best fresh from the garden.	s a mild anise/parsley and goes well with				
Chives								
27514	Staro	Р	Extra thick, dark green leaved variety for all growing purposes. Excellent for forcing tion.	and pot growing as well as field produc-				
Coriander ,	/ Cilantro							
27002	Calypso	А	British bred coriander has excellent bolting resistance and can be cut back and allo out the summer due to its extremely low growing point. This quick growing annua that can be added to salads, curries and soups.					
•••••	•		More varieties on the next page>					



GREEN SLEEVES



OREGANO VULGARE



GIGANTE D'ITALIA





SUMMER SAVORY

HERBS FOR THE PROFESSIONAL GROWER				
ltem #	▼ Variety	Annual / Perennial	Features	
Dill				
27007	Bouquet	А	A development from Mammoth Dill. Used in pickles and salad dressings. Adds zest to salads, soups, and vegetables.	
27516	Green Sleeves	A	A very stable, fast growing, medium fine leafed variety of dark green dill for production of fresh bundles. Strong bolt resistance. 2 - 2 ½ feet tall.	
Lavender				
27502	Lavender Vera	Р	Great for dried flowers, perfuming linens, and repelling moths. Hardy.	
Oregano				
27503	Oregano Vulgare	Р	Purple flowered. Seasons tomato sauces, fish, salad dressings and pizza.	
Parsley				
35012	Gigante d'Italia	А	A plain, dark green, large leaf sized variety; very aromatic and high yielding with multiple cuts.	
Peppermi	nt			
27504	Peppermint	Р	Leaves used as mint tea and as a meat garnish. In addition, the mint oil has many other uses.	
Rosemary	,			
27505	Rosemary	Р	Leaves are used in seasoning meats, sauces, and wonderful for potpourri.	
Sage				
27506	Sage	Р	Most widely used herb. Seasons poultry, sausage, etc.	
Summer S	Savory			
27011	Summer Savory	А	Fresh or dried, used as seasonings in gravies and stews.	
Thyme				
27508	German Winter	Р	Excellent seasoning for soups, i.e. clam chowder, as well as poultry, stews, sauces, pickles and salads.	



SAVE WITH CASH DISCOUNTS

The earlier you order the more you'll receive!

November7%
December6%
January 5%
February 4%
March
April

See page 130 for all of the details.

HERBS FOR THE PF	ROFES	SION/	4L		M=1,00	0 seeds
Price per package/pound	1/4 oz	1 oz.	4 oz.	1#	5#	25#
Basil	02	1 02.	4 02.	1#	3#	25#
Aya, Prospera® DMR						
27041U Untreated	14.10	45.00	132.30	352.75	351.75	
Italian Large Leaf	3.00	3.90	11.40	30.35	29.35	
27017U Lemon Untreated	4.10	13.00	38.20	101.80	100.80	
27042U Red,Prospera® DMR	13.65	43.65	128.35	342.25	341.25	
27030U Siam Queen Thai Untreated	7.30	23.35	68.65	182.95	181.95	
Catnip						
27509U Catnip Untreated	3.00	7.40	21.70	57.75		
Chervil						
27005U Chervil Untreated		3.35	9.85	26.20	25.20	
Coriander / Cilantro						
27002U Calypso Untreated		3.00	4.20	11.05	10.05	9.05
Dill						
27007U Bouquet Untreated		3.00	7.00	18.65	17.65	16.65
Lavender						
27502U Lavender Vera Untreated	7.65	24.45	71.90	191.65	190.65	
Oregano						
27503U Oregano Vulgare Untreated	7.05	22.45	66.00	176.00	175.00	
Parsley						
35012 Gigante d'Italia		5.55	7.60	21.70	20.70	19.70
Peppermint						
27504U Peppermint Untreated	30.20	96.55	283.90	757.00	756.00	
Rosemary						
27505U Rosemary Untreated	31.45	100.55	295.70	788.50	787.50	
Sage						
27506U Sage Untreated	_	12.90	37.55	100.10	99.10	
Summer Savory						
270110 Summer Savory Untreated		4.40	12.55	33.45	32.45	

HERBS FOR THE PROFESSIONAL			M=1,00	0 seeds
Price per 1,000 seeds (M)	1M	5M	25M	100M
Basil				
27035 Emily	3.65	2.15	0.90	0.40
Everleaf Emerald 27019 Towers	22.95	21.45	20.20	19.70
27006 Everleaf Genovese	22.95	21.45	20.20	19.70
27033 Genoveser	3.60	2.10	0.85	0.35
Chives				
27514 Staro	3.65	2.15	0.90	0.40
Dill				
27516 Green Sleeves	3.50	2.00	0.75	0.25
Thyme				
27508U German Winter Untreated	3.85	2.35	1.10	0.60

ORDERS OVER \$350 ARE SHIPPED FREE!







SAVE WITH CASH DISCOUNTS

The earlier you order the more you'll receive!

See page 130 for all of the details.

November7%
December6%
January 5%
February 4%
March
April

BLACK MAGIC

BLUE RIDGE

KALE			
Item #	▼ Variety	Height	Features
Fresh Mar	rket Varieties		
28005	Black Magic	12 - 14"	Winter hardy Tuscan type with darker, savoyed leaves than conventional kales. Flavor improves with frost. Harvest early to use baby leaf as a savoyed brassica. Mature leaves grow as a rosette rather than on a true stem.
28504	Blue Ridge F1	12 - 14"	A superior quality kale that is slow to bolt and yields a highly frilled leaf suitable for both processing or fresh market bunching.
Heritage	Varieties		
28004	Red Russian	24 - 36"	The most tender, mild flavored kale variety. Will wilt soon after harvest; should be cooled or consumed promptly.

KALE				M=1,0	000 seeds
	Price per 1,000 seeds (M)	1M	5M	25M	100M
28005 Bla	ck Magic	3.95	2.90	2.15	1.65
28504 Blu	e Ridge	11.05	10.00	9.25	8.75
	Priced per package	4 oz.			
	Priced per pound in these package sizes		1#	5#	25#
28004U Rec	Russian Untreated	15.25	33.85	33.35	33.10











TADORNA

KOHLRABI			
ltem #	▼ Variety	Days	Features
Fresh Marl	ket Varieties		
29002	Kolibri F1	45	Prettiest, most uniform purple variety available. 3" bulb with deep purple skin and crisp white flesh.
29004	Quickstar F1	49	A Sakata variety that is slow to bolt. Slightly broad dark green leaves. Extremely uniform fruit.

KOHLRABI M=1,000 s								
Price per 1,000 seeds (M)	1M	5M	25M	100M				
29002 Kolibri	21.50	20.95	20.45	19.95				
29004 Quickstar	10.15	9.60	9.10	8.60				

LEEK			
ltem #	▼ Variety	Days	Features
30908	Tadorna	100	An Enza variety that grows upright with a long white shaft and dark blue green foliage. Excellent quality for fall harvest, but can be over wintered where moderate winter conditions prevail. Good field holding ability and very easy to clean.

LEEK				M=1,	000 seeds			
	Price per 1,000 seeds (M)	1M	10M	100M	500M*			
30908P Tad	orna Pelleted	7.60	7.35	7.15	7.00			
* Multiple packages may be used to fill orders for these quantities.								



LETTUCE

PLANTING

Raw Seed Lettuce: Prep the ground so the soil is as fine and loose as possible. Make a seed trench with tines on garden rake. Lightly sprinkle seed in every other trench. Seed should be roughly 1/8"- ¼" deep. Lightly cover the seed with fine soil.

Pelleted Lettuce: Seed in trays 3-4 weeks prior to transplanting. Direct seed into field planting at a depth of 1/8 inch. Seed or transplant lettuce at 10-12" apart in row and 10-12" between rows.

Optimal germination is 50-72 degrees and should sprout in 7-10 days. Lettuce seed will go dormant if soil temperature does get too high.

MANAGEMENT

Growing on white plastic mulch is highly recommended to help keep weeds under control. Leaf head lettuce, Butterhead, and Romaine are the easiest types to grow and sell for fresh markets or roadside stands. Typically, growers cut lettuce in the cool of the morning or evening prior to market day. Cut at the base of the plant and cool at 40 degrees in a high humidity environment. If lettuce wilts, place stems in fresh water in the refrigerator.

HARVEST

Lettuce is an easy crop to add to an early farmers market or fall market. Lettuce can be easily sold alongside many other crops such as beets, radishes, pak-choi, carrots, and spinach. Another trick of the trade is selling a mix of lettuce that is unique to your market or stand. Growers can add different colored lettuce and leaf types or even mustards, or other micro greens to spice up their signature mix. We see growers typically trying to do 2:1 ratio of green to red lettuce.

STORAGE

Leafy greens can be stored close to 32°F. At this temperature, they can be held for 10 - 14 days.









MERIDIAN

NEW RED FIRE



BERGAM'S GREEN



BREEN



TETON

LETTUC	Έ	
Item #	▼ Variety	Features
Butterhead	d	
30309	Alkindus Red	A mid-sized variety with beautiful dark red color which is suitable for full season production.
30516	Harmony Dark Green	Produces remarkably uniform, glossy, very dark green heads. Its large size and good weight ensures a good packout. Leaves have smooth margins and texture is moderately thick with slight blistering.
Iceberg		
30705	Meridian Green	Meridian is a pioneer! This variety is first to market with Fusarium Race 1 tolerance and offers the best tolerance commercially available in the iceberg category. Has performed well in trials in the Midwest and NE.
Leaf		
30304	Bergam's Green Green	A non-heading, dark green variety.
30016	New Red Fire Red	The premier red lettuce for market growers. Superior appearance. Mosaic indexed.
Romaine		
30214	Breen Red	A unique variety due to its brilliant purple-red exterior color and the interior green color. Top closes nicely, resulting in a perfect formed heart. Great tasting with excellent shelf life.
30215	Teton Green	Taller and darker plant for spring and fall harvest. Early maturing and produces large and heavy heads.
Romaine H	leart	
30203	Arroyo Green	A commercial introduction suitable for carton, fresh market and heart production. Shiny dark green. Broad seasonal adaptability.

LETTUCE				M=1,000 seeds
P	rice per 1,000 seeds (M)	5M	100M	500M
Butterhead				
30309P Alkindu	IS Primed/Pelleted	7.20	6.85	6.60
30516 Harmon	y Pelleted	4.00	3.65	3.40
Iceberg				
30705P Meridia	n Pelleted	3.65	3.30	3.05
Leaf				
30304P Bergam	's Green Primed/Pelleted	3.05	2.70	2.45
30016P New Re		2.85	2.50	2.25
30016 New Re	d Fire	1.60	1.25	1.00

			M=1,000 seeds
ice per 1,000 seeds (M)	5M	100M	500M
ted	6.35	6.00	5.75
d/Pelleted	3.20	2.85	2.60
elleted	3.30	2.95	2.70
	ice per 1,000 seeds (M) red dPellered	ed 6.35 dPelleted 3.20	ice per 1,000 seeds (M) 5M 100M ted 6.35 6.00 dPelleted 3.20 2.85



MELONS

PLANTING

When direct seeding plant $\frac{1}{2}$ " - 1" deep. Soil temperature should be 75 - 85°F. Five to six feet is the recommended row spacing with 18 - 24 inches between plants. If starting with transplants sow 3 - 5 weeks prior to planting outside.

See "Germination Chart" on page 125 for additional information on germination rate and days to germination at various soil temperatures.

MANAGEMENT

To ensure high yield place pollinators near fields. A melon needs to be visited by a bee three times to ensure proper pollination. Scout every seven days for weed, insect, and disease pressure. Contact your local extension agent or consult the Midwest Vegetable Production Guide for identification and treatment options. www.ruppseeds.com/MVPG

HARVEST

Harvest 30 - 35 days after pollination. If shipping, pick at half slip. When picking for fresh market, pick at ¾ to full slip. Wash fruit in peroxyacetic acid (peroxide and acetic acid), as a non-chlorine sanitizing option.

STORAGE

Cool to at least 70°F and at 95% humidity. Shelf life is based on storage temperature. Do not cool below 32°F.

DISEASE CODES

A - Anthracnose DM - Downy Mildew F - Fusarium GSB - Gummy Stem Blight PM - Powdery Mildew PRSV - Papaya Ring Spot Virus WMV - Watermelon Mosaic Virus ZYMV - Zucchini Yellow Mosaic Virus





ACCOLADE



APHRODITE







SUGAR RUSH

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you'll receive!



AFTERGLOW

November7%

December.....6%

January 5%

February 4%



syngenta[®]

SOLSTICE



MELC	ONS	CA	NTALOU	JPE Hybrid				Pricing on page 62
ltem #	Variety	▼ Days	Fruit Size pounds	Net / Sutures	Flesh Color	Disease	Harvest Indicator	Features
31075	Goddess	68	5 - 6	Medium Net / Light Sutures	Orange	F ^{0,1,2} , PM ^{1,2}	Full Slip	An extremely early Athena type with good disease tolerance and good holding ability.
31014	🛨 Cleopatra	70	4 - 6	Medium Net / Light Sutures	Orange	F ^{0,1,2} , PM ^{1,2}	Full Slip	Consistent early fruit set. Tight seed cavity and great quality for an early variety. Suitable for local delivery, roadside stands and fresh market. Great as a first early or to plant with Goddess.
31015	Accolade 🌔	73	6	Medium Net / Light Sutures	Orange	F ^{0,1,2} , PM	Full Slip	Improved internal fruit quality for extended shelf life. En- hanced vine strength. Tight seed cavity with firm flesh.
31071	🔶 Aphrodite 🌢	75	6 - 8	Coarse Net / Light Sutures	Salmon	F ^{0,1,2} , PM ^{1,2}	Full Slip	Today's standard for Eastern shipping melons. Larger and better holding ability than the former standard, Athena.
31084	🔶 Avatar 🌢	75	7 - 9	Full Net	Orange	F ^{0,1,2} , PM ^{1,2}	Full Slip	Large Eastern shipper with medium open cavity. Firm, flavorful orange flesh. Exterior is light green and turns to a yellow-tan when fully ripe. Ideal for higher latitudes.
31018	Sugar Rush	75	4	Medium Net / No Sutures	Orange	F ^{0,1,2} , PM ^{1,2}	Full Slip	Quality meets size. This is the big brother to Sugar Cube. Productive plant and high Brix.
31017	Afterglow	78	5 - 7	Medium Net / Deep Green Sutures	Orange	F ^{0,1,2} , PM ^{1,2}	Full Slip	Late sutured melon with high Brix and firm flesh for extended holdability.
31085	Solstice	78	7 - 12	Heavy Net / Deep Sutures	Orange	F ^{0,1,2} , PM ^{1,2}	Full Slip	A Seneca Vegetable Research release similar to old "Eastern" types. Has great sugar, flavor and yield. Very large fruit. Great disease package.
31050	🔶 Athena 🌢	80	5 - 7	Medium Net / Light Sutures	Salmon	F ^{0,1,2} , PM ^{1,2}	Full Slip	Athena delivers the sweet flavor and texture consumers demand. Athena melons stay firm even when harvested at full slip.

Harvest Indicator (Slip): Slip is defined as a small crack that forms around the stem. Typically, when harvesting a cantaloupe and consuming it within a few days a full slip melon is your best choice, but the shelf life is limited. If you desire to pick less often and store the cantaloupe in a cooler, you might want to consider a half slip melon. You will still get good flavor, good sugar, and a firm texture. The third stage would be clipping. At this stage, the brix's have fully developed and fruit are firm and soften as they are stored. A clipped melon does not mean it is of lower quality.





DAMARIS



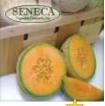
THUNDERSTRUCK

SENECA









SUGAR CUBE

MELONS		CANTALOUPE Hybrid Extended / Long Shelf Life						
ltem#	Variety	▼ Days	Fruit Size pounds	Net / Sutures	Flesh Color	Disease	Harvest Indicator	Features
31022	Arangina	75	3-6	Course Net / Deep Green Sutures	Dark Orange	F ^{0,1,2} , PM ^{1,2,3.5,5}	Clip	Arangina is a delicious mid-season ESL Italian melon. Strong plant vigor with good and uniform fruit setting. The fruit is blocky shaped, hard course netting, deep green sutures, dark orange flesh with great firmness and small cavity. Outstanding eating quality. Harvest indicator is when rind changes colors.
31020	Damaris 🏷	78 - 80	5 - 6	Medium Net / No Sutures	Orange	F ^{0,1,2} , PM ^{2,3.5}	Half Slip	Damaris is an oval-shaped, extended shelf life melon with a solid disease package. Features a tight cavity with firm flesh.
31021	Thunderstruck	80	5 - 7	Medium Net / No Sutures	Deep Orange	F ^{0,1,2} PM ^{1,2}	Half Slip	Enhanced holding ability with Eastern flavor and texture. It is best to monitor background color change before full slip to determine optimum harvest time. Great sugar levels.
31009	Shockwave	85	4 - 6	Medium Net / No Sutures	Deep Orange	F ^{0,1,2} , PM ^{1,2}	Half Slip	Outstanding eating quality with an average Brix of 15%. Has firm flesh with a very small seed cavity. This melon has an extended hold ability for a controlled pick. Slips when mature.

MELONS CANTALO			M=1,0	00 seeds		
Priced per package	100 Seeds	500 Seeds				
Price per 1,000 seeds (M)			1M	5M	15M*	90M*
31015 Accolade F300	19.60	77.00	110.00	106.90	104.90	103.90
31015 Accolade FI400	19.80	77.80	111.10	108.00	106.00	105.00
31017 Afterglow	14.20	55.90	79.85	76.75	74.75	73.75
31071 Aphrodite F300	18.00	70.80	101.10	98.00	96.00	95.00
31071 Aphrodite FI400	18.50	72.80	103.95	100.85	98.85	97.85
31022 Arangina	13.45	52.80	75.40	72.30	70.30	69.30
31050 Athena F300	18.20	71.65	102.35	99.25	97.25	96.25
31050 Athena FI400	18.75	73.70	105.25	102.15	100.15	99.15
31084 Avatar F300	13.80	54.15	77.30	74.20	72.20	71.20
31014 Cleopatra	14.45	56.85	81.20	78.10	76.10	75.10
31020 Damaris FI400	18.55	72.85	104.05	100.95	98.95	97.95
31075 Goddess	15.70	61.70	88.10	85.00	83.00	82.00
31009 Shockwave	16.25	63.80	91.10	88.00	86.00	85.00
31085 Solstice	14.25	55.95	79.90	76.80	74.80	73.80
31018 Sugar Rush	16.10	63.30	90.40	87.30	85.30	84.30
31021 Thunderstruck	16.10	63.35	90.45	87.35	85.35	84.35
* Multiple packages may be u	used to fill c	rders for t	nese quanti	ties.		

ALL-STARS ╈ MELONS

Afterglow is an extremely dependable half Tuscan melon with high sugars and firm flesh. Afterglow will keep your customers coming back for more.

The most widely grown melon in the North and Midwest is **Aphrodite**. It is still the standard for many of our growers. This melon yields with the best of them.

Athena is the most widely grown melon in the Eastern U.S. With its excellent disease tolerance and sought after quality, it is well known in the marketplace.

Flavor, size and yield have combined to make **Avatar** a favorite of many of our growers. For those of you who are looking for a large eastern type melon, this is one to try.

Cleopatra is similar to the popular Goddess variety with much better netting and a more consistent size. Include this 70 day melon in your program.

PERSONAL SIZED

If you are looking for a personal sized hybrid, look no further than **Sugar Cube**, with perhaps the best eating quality of any melon on the market (high Brix, firm flesh, great flavor). Sample this one at your market and it will sell itself. It is also just the right size for smaller households or the CSA box. This melon slips easily and will hold and ship without losing quality. The perfect personal sized melon!

> Brad Paulson Vegetable Consultant

MELONS			MIXED/SPECIALTY Hybrid							
ltem #	Variety	▼ Days	Fruit Size pounds	Net / Sutures	Flesh Color	Disease	Features			
31717	Gourmet	70	3 - 4	Distinctive Netting	Creamy White		A high sugar, 15 Brix, melon from Hollar. Great flavor, texture and yield make this one an excellent choice for roadside marketers.			
31704	Ambassador	76	6 - 8	Heavy Net / Slight Sutures	lvory / Green	F ^{0,1,2} , PM ^{1,2}	Larger than other galia melons with high Brix and enhanced fruit firmness for excellent storage ability. Ideal for main season when great tasting melons are desired.			
31011	Earli-Dew 🏷	85	3 - 4	No Net / No Sutures	Lime Green	F	Early Honeydew type. Slips when mature.			

MELON	IS	PER	SONAL	SIZE Hybric	ł		
ltem #	Variety	▼ Days	Fruit Size pounds	Net / Sutures	Flesh Color	Disease	Features
31078	🗸 Sugar Cube	80	2	Medium Net / Light Sutures	Deep Orange	F ^{0,1,2} , PM ^{1,2} , PRSV, WMV, ZYMV	A personal size melon with deep orange flesh, amazing quality ^{14% Brix} , with excellent shelf life. In addition, has the best disease resistance package. Fruit size is around 4".

MUSTA	RD		
ltem #	▼ Variety	Days	Features
Fresh Mar	ket:		
32005	Savannah F1 Mustard Spinach	35	An early maturing, broadleaf, tendergreen mustard. Faster growing and slower bolting than OP's.

OKRA			
ltem #	▼ Variety	Days	Features
33003	Dwarf Long Green Pod		2 - 3' tall plant with dark green, tender pods.
33009	Jambalaya 2.0 F1	50	Compact plant with small leaves. High yields with uniform fruit. Very early.

MELONS MIXED/SPEC		M=1,0	00 seeds				
Priced per package	100 Seeds	500 Seeds					
Price per 1,000 seeds (M)			1M	5M	15M*		
31704 Ambassador	13.55	53.70	76.65	73.55	71.55		
31011 Earli-Dew F300	14.75	58.40	83.40	80.30	78.30		
31717 Gourmet	15.75	62.50	89.25	86.15	84.15		
* Multiple packages may be use	* Multiple packages may be used to fill orders for these quantities.						

MUSTARD					
	Priced per package	4 oz.			
	Priced per pound in these package sizes		1#	5#	50#
32005 Savannah		73.80	131.15	130.15	129.15

MELONS PERSONAL	L SIZE Hybrid M=1,0				00 seeds
Priced per package	100 Seeds	500 Seeds			
Price per 1,000 seeds (M)			1M	5M	15M*
*					
31078 Sugar Cube	16.10	63.75	91.05	87.95	85.95

OKRA				
Priced per package	1 oz.	4 oz.		
Priced per pound in these package sizes	1 02.		1#	5#
33003U Dwarf Long Green Pod Untreated		6.65	10.20	9.95
33009 Jambalaya 2.0	21.40	63.35	199.45	198.45



ONIONS

PLANTING

Onions are mostly direct seeded in the field, although some are transplanted as seedlings or sets. Transplants are sometimes used to improve bulb size, as well as to hasten maturity, or to avoid infection by some plant diseases, but this method of crop establishment is more expensive. Planting occurs from late March through early May. Between-row spacing varies considerably depending upon weed and foliar disease management, seeder capability, and harvesting equipment. In-row spacing also varies depending upon variety, desired bulb size, between row spacing, soil type, and other management considerations.

Bunching Onions - Direct seed in spring when the soil reaches 50°F. Plant seed $\frac{1}{4}$ deep and approximately $\frac{1}{2}$ apart.

Bulb Onions/Short Day - Typically short day onions are direct seeded in the southern region of the United States. In order to grow short day onions in the northern region of the United States, the seed has to be sown in greenhouses and then transplanted into the field. Use pelleted seed if direct seeding to help achieve better singulation.

Bulb Onions/Intermediate Day - Direct seed intermediate day onions as soon as soil allows in April or early May. Sow seed 2" apart and thin to 3 - 4" apart for larger onions. Seeding depth should be approximately ¼" deep. If transplanting seed in flats in late February to mid March, tops may be clipped to 5" tall. Use pelleted seed if direct seeding to help achieve better singulation.

Bulb Onions/Long Day - Direct seed long day onions as soon as soil allows in April or early May. Sow seed 2" apart and thin to 3 - 4" apart for larger onions. Seeding depth should be approximately ¼" deep. If transplanting seed in flats in late February to mid March, tops may be clipped to 5" tall. Use pelleted seed if direct seeding to help achieve better singulation. Plant long day onions in the northern latitudes.

See "Germination Chart" on page 125 for additional information on germination rate and days to germination at various soil temperatures.

MANAGEMENT

Keep onions well weeded with shallow cultivation. Onions are shallow rooted and grow best in moist soil; irrigation may be required. Keep direct seeded onions away from onion sets because onion sets are more prone to disease. Long day onions should be planted in northern latitudes because of daylight requirements for bulbing.

HARVEST

Onions are ready to harvest when tops approximately have 50 - 75% fallen over and the skins have dried. Pull the bulbs by hand or use equipment such as a potato digger or undercutter to cut the roots and lift the bulbs. Wait until all the leaves are dead and dry. It is likely the outer skins will loosen. Pulling onions too green will make them difficult to cure and will affect storing them. Harvest when the weather is dry.

STORAGE

Cure onions at 65 - 85°F at 70% humidity. Curing decreases the incidence of neck rot, reduces water loss during storage, prevents microbial infection, and is desirable for development of good scale color. Curing can be done in the field, preferably when the weather is warm and dry. If it rains let them dry fully before handling. A greenhouse or hoophouse also provides good conditions for curing. Temperatures in the 80's will enhance the bronze color in the skins. Sunshine is good as long as it is not too hot. Extreme sun can produce sunscald.

Store onions out of the sun; exposure to light after curing will induce greening of outer scales. Optimum temperature for long term storage of onions is 32°F with 65 - 70% humidity. It is important to cool them down slowly. Using cool late summer and fall temperatures works great to cool onions down slowly.



NEW

RED GARCIA



Seminis

SV4643NT



GREAT WESTERN

Crookhan



GREAT WHITE



SPANISH MEDALLION



ISHIKURA IMPROVED BUNCHING



SAVE BIG WITH CASH **DISCOUNTS!** See page 130

RED BUNCHING

ONIONS							Pricing on page 66	
ltem #	▼ Variety	Maturity	Color	Bulb Shape	Storage	Features		
Bulb Onion	s / Intermediate Day							
34020	Candy FI 🌘	100	Yellow	Globe	Short	A mild flavored Seminis onion that will perfore extra large to jumbo sizes. Short term storag		
34072 NEW	Delightful 🜔	108	Yellow	Globe	Short	Delightful is a late intermediate onion produ easily mechanically harvested. The scale is re pyruvate levels on this variety are low at han	etentive and golden brown in color. The	
34004	Great Western F1	110	Yellow	Globe	Short	Can be grown in all intermediate growing an retention. It will cut a high percentage of sin transplanted. Strong plant growth with sizes	gle centers and can be direct seeded or	
34021	Great White 🕫 🌔	103	White	Globe	Medium	A white Spanish Class onion. Great yield pot nescent white package with a high rate of sin		
34016	Red Canyon FI 🌔	100	Red	Globe	Medium	Red Canyon is an early choice for intermedia shape and a bold red color. Dependable yiel containing distinct red rings.		
34039	Spanish Medallion F1	115	Yellow	Globe	Short	This yellow onion is firm with excellent skin jumbo to colossal in size. It is tolerant to pin		
Bulb Onion	s / Long Day							
34071 NEW	Red Garcia	115	Red	Globe	Long	This is a main-season maturity red onion wit tops and has performed consistently well ov		
34000	SV4643NT 🕫 🌔	112	Red	Flattened Globe	Long	Bold red colored variety with excellent yield exterior color. Stores very well.	potential. Has both superb interior and	
34073 NEW	Trident	115	Yellow	Globe	Long	Recommended to plant in the later long day hotter and more stressful growing season. Tr		
Bunching O	nions							
34510	lshikura Improved Bunching	120	White			A Tokyo Long type with fancy, lengthy, white	stalks. A good shipper.	
34036	Red Bunching F1 DPS 3047	55	Red			A red skinned, white fleshed bunching onion makes a striking presentation in the market.		



BROOM CORN SORGHUM BLEND



ORNAMENTAL SOR		SORGH	GHUM / BROOMCORN			
Item #	▼ Variety	Days	Features			
05538	Broom Corn Sorghum Blend	100-110	This seed is a combination of our Mixed Color Broom Corn and the Colored Uprights Sorghum seeds. Seed head colors vary from either gold, bronze, red, brown, burgundy or black. Maturities vary from 100-110 days. As the seed heads matures, the color will deepen and become heavier and shiny.			

ONIONS		Descriptions of	on page 66.	M=1,000 seeds
	Price per 1,000 seeds (M)	5M	25M	100M
34020 Candy F3	100	5.65	4.70	3.45
34020P Candy F3	100 Pelleted	6.45	5.35	3.95
34072 Delight	ful ^{F300}	9.70	8.05	5.95
34072P Delight	Ful F300 Pelleted	10.60	8.80	6.50
34004 Great W	lestern	6.85	5.70	4.20
34021P Great W	hite F300 Pelleted	10.60	8.80	6.50
34036 Red Bur	nching DPS 3047	8.40	7.00	5.15
34016P Red Car	yon F300 Pelleted	10.65	8.85	6.55
34071 Red Gar	rcia	7.90	6.55	4.85
34039P Spanish		7.65	6.35	4.70
34000 SV4643	NT F300	7.90	6.55	4.85
34073 Trident		9.15	7.60	5.60
	Priced per package	1 oz.	4 oz	. 1#
34510 Ishikura	Improved Bunching	6.90	18.20	45.45

ORNAMENTAL SORGHUM / BROOMCORN

Priced per package	4 oz.		
Priced per pound in these package sizes		1#	5#
055380 Broom Corn Sorghum Blend Untreated	18.40	52.85	49.85

FarMore[®]F300

FarMore F300, an advanced fungicide seed treatment technology, delivers protection for a variety of small-seeded vegetable crops against a broad spectrum of seed and seedling diseases. With the active ingredients mefenoxam (Apron XL'), fludioxonil (Maxim' 4FS) and azoxystrobin (Dynasty'), FarMore F300 enhances seedling emergence, plant stand establishment, plant health, early-season vigor and yield potential. <u>www.ruppseeds.com/f300</u>

FarMore' treated items are highlighted in green in the price tables.

Look for this symbol in the product description tables marking FarMore treated items.



ORDERS OVER \$350 ARE SHIPPED FREE!

SABRE

PARSL	EY			
ltem #	▼ Variety	Days	Features	
35012	Gigante d'Italia	75	A plain, dark green, large leaf sized variety; very aromatic and high yielding with multiple cuts.	

PARSNIPS			
ltem # ▼ Variety		Days	Features
36005	Javelin F1	110	A hybrid developed in Europe for the pre-pack market with high marketable yield in the desired size range. Roots have level crowns and wash easily. Superior quality and marketability vs. OP varieties.
36007	Sabre F1	150	A main season, high yielding parsnip with a smooth white skin. Good resistance to canker. It has an improved slender shape and holds it weight nicely down the root. Also, works well for storage and can hold its white color.

PARSLEY					
Priced per package	1 oz.	4 oz.			
Priced per pound in these package sizes			1#	5#	25#
35012 Gigante d'Italia	5.55	7.60	21.70	20.70	19.70

PARSNIPS M=1,000 seeds									
Price per 1,000 seeds (M)	5M	50M	100M	500M					
36005P Javelin Primed, Pelleted	5.75	5.20	4.95	4.60					
36007P Sabre Primed, Pelleted	5.85	5.30	5.05	4.70					



PEAS

PLANTING

Direct seed $1\frac{1}{2}$ " - 2" deep in soils that are at least 40° F. Plant in rows that are 30" - 36" apart and 1" - 2" between the plants.

See "Germination Chart" on page 125 for additional information on germination rate and days to germination at various soil temperatures.

MANAGEMENT

Scout field for insect, weed, and disease pressure.

HARVEST

Harvest peas when ripe. In shelling peas, pods should be filled out and able to feel individual peas. Pea pods should be harvested before seed develops inside the pod.

STORAGE

After harvest store peas at 50 - 60°F with 95% humidity to ensure quality.

DISEASE CODES

MV - Enation Mosaic Virus F - Fusarium NW - Near Wilt PM - Powdery Mildew RR - Root Rot W - Common Wilt Race 1 WP - Western Pea Streak Virus YM - Bean Yellow Mosaic

E

P

PEAS	5							
ltem # Fresh N	1arket	▼ Variety Varieties	Days	Height	Pod Length	Peas per Pod	Disease	Features
12033		Legacy	67	26"	3 1⁄2"	7 - 9	F, PM	A Bolero replacement, one day earlier with resistance to powdery mildew.
12003		Maestro	61	18"	4"	9	MV, PM, W, YM	Heavy crops, very disease resistant.
12005	\star	PLS 566	64	22-24"	3.7"	10-12	F, PM,	Long, light green pods stand out against the dark green vine. Two pods per node and high yields. Shows tolerance to downy mildew. Great companion to PLS 595.
12008	\star	PLS 595	67	30"	3.6"	9 - 10	F, PM	Fresh market or processor. High yields. Great taste.
12035		Sabre	65	24"	3 1⁄2"	9 - 10	F, RR, PM	Sabre is a normal vine type with long pods. The dark green berries produce won- derful yields - frozen, canned or fresh.
12519	\star	Short Story PLS 534	58	20-22"	3.8"	9-10	F 1 & 2, RR	Second early afila with double pods. Creates fantastic yields. Great companion to PLS 595.

PEAS		SNC	SNOW					
item #	▼ Variety	Days	Features					
12102	Oregon Sugar Pod II	68	30" vine with 4" pods, disease resistant.					

PEAS		SUG	SUGAR SNAP					
ltem # ▼ Variety		Days	Features					
12206	Cascadia	67	Unusually thick pod walls on a 30" vine. Pods remain tender and sweeter longer than other cultivars. Flavor improves until seeds are over mature. Has outstanding disease tolerance, eating quality and yielding ability.					
12201	Sugar Ann	52-60	Earliest and shortest snap pea. 18" vine. Can be grown without support and can be shelled.					
12209	Sugar Sprint	62	A variety from Syngenta which replaces Sugar Ann. Has resistance to powdery mildew and tolerant to Pea Enation Mosaic Virus. 3" sweet and stringless pods with a plant height of 26".					

PEAS

Priced per pound					
in these package sizes	1#	5#	25#	50#*	500#*
12033 Legacy	7.20	4.75	4.50	4.25	4.15
12003 Maestro	8.50	5.60	5.35	5.10	5.00
12005 PLS 566	7.40	4.90	4.65	4.40	4.30
12008 PLS595	7.40	4.90	4.65	4.40	4.30
12035 Sabre	7.35	4.85	4.60	4.35	4.25
12519 Short Story PLS 534	7.40	4.90	4.65	4.40	4.30
* Multiple packages may be used	d to fill orders f	or these qua	ntities.		

PEAS SUGAR SNAP

Priced per pound					
in these package sizes	1#	5#	25#	50#*	500#*
12206 Cascadia	10.35	6.85	6.60	6.35	6.25
12201 Sugar Ann	9.60	6.35	6.10	5.85	5.75
Price per 1,000 seeds (M)	2M	10M	20M	80M	800M
12209 Sugar Sprint	4.50	3.50	3.25	3.05	2.80
* Multiple packages may be used	to fill orders	for these qua	ntities.		

PEAS SNOW PEA

Priced per pound in these package sizes	1#	5#	25#	50#*	500#*			
12102 Oregon Sugar Pod II	8.65	5.70	5.45	5.20	5.10			
* Multiple packages may be used to fill orders for these quantities.								



PEPPERS (Sweet)

PLANTING

Sow in the greenhouse 7 - 9 weeks before desired planting date. Allow plants to harden 7 days before transplanting. Plant transplants halfway between rootball and bottom leaves. This will help prevent lodging.

See "Germination Chart" on page 125 for additional information on germination rate and days to germination at various soil temperatures.

MANAGEMENT

Scout every 7 days to ensure crop development. Consult the Midwest Vegetable Production Guide:

www.ruppseeds.com/MVPG or your local extension agent for identification and treatments.

HARVEST

Cut or break pepper off the plant but leave at least 1" of the stem attached to the pepper.

STORAGE

Clean and wax peppers. Pre-cool at 45°F. Store at 45 - 50°F with 90 - 95% humidity; this will ensure the longest shelf life.

DISEASE CODES

BLS - Bacterial Leaf Spot CMV - Cucumber Mosaic Virus PHY - Phytopthora Root Rot PMV - Pepper Mottle Virus PVY - Potato Virus Y S - Stip TEV - Tobacco Etch Virus TMV - Tobacco Mosaic Virus TSW - Tomato Spotted Wilt

USE RECOMMENDATIONS

FM - Fresh Market P - Processing PP - Place Pack









PS09941819 X5R® 🗡

Seminis





REDFISH X10R®



REGULATOR

SAILFISH X10R®



SPRINTER





PEPPERS BELL GREEN TO RED Hybrid Pricing on page 72 Use Item # ▼ Variety Days Flesh Shape Disease Features BLS^{1,2,3}, PVY, A Seminis hybrid with heavy set, thick walls, excellent disease protec-Aristotle X3R[®] 37125 72 Thick Jumbo Blocky TMV FM tion and enormous fruit size. 3 - 4 lobed. The industry standard. Mercer is a widely adapted green-to-red bell pepper well suited for the North Eastern U.S. growing regions. The maturity is mid-early, with high yields of extra-large fruit with good quality. Plants are vigorous, BLS 0-3,7,8, PHY, FM, sturdy, have good cover and have high yield potential. The fruit are Mercer 🧭 37065 72 Thick PP, P firm, dark green and mature to a very attractive deep red color. Large Blocky TMV The largest sized pepper we carry. Produces a continuous set of large to extra-large, 3 and 4 lobed fruits on a small to medium sized plant. Fruits are anthocyaninless and appear to have good field tolerance for PS 09941819 X5R* 💙 37161 75 BLS^{1,2,3,4,5}, PHY Thick Jumbo Blocky FM epidermal separation. A Seminis medium to large blocky hybrid. Early to red, like North Star, 37119 **Red Knight X3R®** 63 Thick BLS^{1,2,3}, PVY Ρ with resistance to BLS races 1, 2 and 3. Large Blocky A widely adapted pepper that is well suited for the early red markets. Redfish has a strong vigorous plant with large fruit. Redfish has BLS 37048 Redfish X10R® 76 Thick BLS⁰⁻¹⁰, PHY FM 0-10 with phytophthora control. Blocky Regulator is an attractive, widely adaptable variety. This variety produces a high percentage of four lobed fruit and will maintain size throughout the growing season. The growing area for Regulator is the 73 -Eastern US, both in main season spring and fall. Regulator features a 37047 75 BLS¹⁻¹⁰, TMV strong plant with good cover and a great fruit uniformity. Regulator Thick Blocky FM, PP BLS⁰⁻¹⁰, PHY, An early red bell pepper for fresh market, with high-quality, blocky 37046 Sailfish X10R® Early Thick Blocky TMV FM, P smooth fruit, and excellent red color. Produces quality yields of uniform fruit over a long harvest window. Medium Compact plants. It sets fruit well under row cover. Strong against Sprinter 🔬 TMV⁰⁻³ 37014 Early Thick Blocky FM, PP blossom-end rot and russetting. Turns red early. Tarpon is a main-season hybrid with X10R® technology and intermediate resistance to phytophthora blight for the northeast and midwest BLS⁰⁻¹⁰, PHY, United States and eastern Canada. Tarpon has a compact plant and 37042 Tarpon X10R[®] Main Thick TMV FM, PP produces dark green, smooth blocky fruits. Large Blocky BLS^{1,2,3,4,5,7,9} Extra large sized fruit with massively thick walls. Provides industry Turnpike X5R® 37023 72 PHY, TMV FM Thick Blocky leading potential for yield.





DICAPRIO



Seminis



SVPB8415	X10R	

PEPPERS		BELL Y	BELL YELLOW Hybrid							
ltem #	▼ Variety	Days	ays Flesh	Shape	Disease	Use	Features			
37015	Abay 🐋	80	Medium Thick	Blocky	BLS ¹⁻⁵	FM	Offers strong bacterial leaf spot resistance. Very strong plant with high yield po- tential. Outstanding coloration. Excellent firmness and fruit quality. Continuous setting.			
37034	Dicaprio 소	80	Medium Thick	Blocky Bell	TMV ⁰⁻³ , TSW	FM	Good variety for high tunnels or unheated greenhouses from Enza Zaden.			
37108	Early Sunsation X3R	70	Thick	Medium Blocky	BLS ^{1,2,3} , PVY, TMV	FM	A Seminis hybrid with Bacterial Leaf Spot 1, 2 and 3 resistance. Is early with dark green blocky fruit turning golden and sweet at maturity. Maintains firmness in mature stage and has heat setting ability.			
37045	🔶 SVPB8415 X10R	73 Green / 83 Yellow	Thick	Medium Blocky	BLS ^{1,2,3} , PVY, TMV	FM	Offers fast color change from green to yellow. Very adaptable across many growing conditions in the eastern U.S.			

PEPPER	S BELL GRE		M=1,000 seeds				
Pr	iced per package	100 Seeds	500 Seeds				
Price per	1,000 seeds (M)			1M	5M	25M	50M
37125 Arist	totle X3R® F300	18.50	81.70	116.70	108.05	102.90	98.90
37125P Arist	totle X3R [®] F300 Pelleted	18.60	82.15	117.30	108.60	103.40	99.40
37065 Mer	cer F300	18.80	83.10	118.65	109.85	104.60	100.55
PS 0 37161 XSR® F30	9941819 º	19.60	86.70	123.85	114.65	109.15	104.95
PS 0 37161P F300 Pelle	9941819 X5R * ted	19.70	87.15	124.50	115.25	109.75	105.50
37119 Red	Knight X3R®	14.85	65.55	93.60	86.65	82.50	79.30
37048 Red	fish	19.05	84.15	120.15	111.25	105.95	101.85
37047 Reg	ulator with X10R®	19.60	86.55	123.60	114.40	108.95	104.75
37046 Sailf	ish with X10R®	20.35	90.00	128.55	119.00	113.30	108.90
37014 Spri	nter	66.35	293.50	419.25	388.15	369.65	355.40
37042 Tarp	on with X10R F300	20.45	90.45	129.15	119.55	113.85	109.45
37042P Tarp	on X10R® F300 Pelleted	20.55	90.85	129.75	120.10	114.35	109.95
37023 Turn	pike XSR®	20.35	89.95	128.50	118.95	113.25	108.85
* Mul	tiple packages may b	e used to f	ill orders for	these quar	itities.		

PEPPERS BELL YEL			M=1,0	00 seeds							
Priced per package											
Price per 1,000 seeds (M)			1M	5M	25M	50M					
37015 Abay	19.80	87.40	124.85	115.60	110.05	105.80					
37034 Dicaprio	87.95	389.00	555.70	514.50	490.00	471.15					
37108 Early Sunsation X3R®	14.55	64.35	91.90	85.05	81.00	77.85					
37045 SVPB8415 X10R*	21.00	92.75	132.50	122.65	116.80	112.30					
* Multiple packages may be	* Multiple packages may be used to fill orders for these quantities.										

PEPPERS BELL OT	k	M=1,000 seeds				
Priced per package	100 Seeds	500 Seeds				
Price per 1,000 seeds (M)			1M	5M	25M	50M
37090 Delirio	21.15	93.45	133.50	123.60	117.70	113.15
37013 Milena	66.20	292.70	418.10	387.10	368.65	354.45
37088 Tequila	24.50	108.30	154.65	143.15	136.30	131.05
37550 Valahia	11.80	52.10	74.40	68.85	65.55	63.00
* Multiple packages may b	e used to fil	l orders for t	hese quanti	ties.		



DELIRIO

MILENA

TEQUILA



VALAHIA

PEPPERS		BEL	BELL OTHER COLORS Hybrid									
ltem #	▼ Variety	Days	Flesh	Color	Shape	Disease	Use	Features				
37090	Delirio	68	Thick	Dark Green to Bright Orange	Medium Blocky	TM⁰	FM, PP	An early maturing, medium to large blocky, dark green to vivid bright orange, sweet bell pepper. Good holding quality.				
37013	Milena 🐼	Early	Thick	Green to Orange	Medium	PVY, TM ⁰⁻³ , TSW	FM, PP	Thick walls and uniform 3-4 lobed fruit. Peppers average ½ lb and 3" x 4" in size. Vigorous open plant habit with good yield and solid set, even under hot conditions. Plants average 28" tall and are upright and sturdy. Works well in the greenhouse, unheated tunnels or open field. Strong disease package.				
37088	Tequila	68	Thick	Lilac to Red	Large Blocky	TMV ⁰	FM	Larger and better quality than its other lilac competitors. Matures from lilac to a medium red color. 3 - 4 lobe.				
37550	Valahia	Early	Thick	lvory to Red	Blocky	TM ⁰⁻²	FM	Valahia is a vigorous plant. It is an early hybrid with indeterminate growth, high yields and constant binding, and a well developed root system.				

GROWER PREFERRED ALL-STARS

GREEN TO RED BELLS

Aristotle X3R* is the best overall performer with a consistent early set of large sized fruit. A favorite with many growers – a real money-maker!

If you are concerned about Phytopthora pressure, consider using Turnpike X5R*. It has one of the strongest tolerances of any bell pepper that we carry and the fruit quality is exceptional. It also provides the grower with X5R bacterial leaf spot resistance.

PS09941819 X5R° is the one for you if your customers are looking for a jumbo sized bell! It also has a very dark green color and X5R Bacterial Leaf Spot resistance.

Tarpon is a blocky bell pepper with X10R resistance to Bacterial Leaf Spot and intermediate resistance to Phytophora. You will like the consistent size, shape, and dark green color.

OTHER COLORED BELLS

SVPB8415 is a yellow X10R bell pepper from Seminis that you need to try for your colored bell pepper mix. It turns from green to yellow quickly and has very high quality, large size fruit.

> Liz Meredith Vegetable Consultant

SWEET BANANAS

PEPPERS

Sweet Sunset has fruit quality similar to Ethem but it also has resistance to bacterial spot races 0-3, 7 and 8. Fruit are 8" x 1 1/2" and very smooth.

ANCHO / POBLANO

Tiburon has the quality your customers expect in this category. Pungency levels are milder and will work very well in Mexican dishes. Tiburon is a poblano (turns red).

HOT WAX BANANA

Inferno is the best all-around hot banana available. The yield is fantastic and the pungency is just what your customers expect.

JALAPEÑO

Mammoth is the jalapeno you are looking for if you want consistent large fruit size and medium heat levels. Mammoth has a continuous fruit set so you can expect very good yields throughout the growing season.

A newer addition to our jalapeno lineup is SV3198HJ X3R*. It can be used for processing or fresh market. Fruits are long and cylindrical with pungency on the milder side at 1,000 Scovilles.









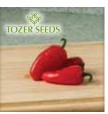






PEPPER	RS	SWEET	SWEET CONES Hybrid 💁										
Item #	▼ Variety	Days from Transplant	Flesh	Color	Size	Disease	Features						
Cornito Se	ries												
37199	Cornito Arancia	80	Medium	Orange	1 ½ x 5"		A half-size Corno di Toro type pepper. Very early and attractive. Grow and se						
37195	Cornito Giallo	80	Medium	Yellow	1 ½ x 5"		them individually, or as mixed colors, loose or in a clamshell. Exceptionally						
37198	Cornito Rosso	80	Medium	Red	1 ½ x 5"		^w sweet, perfect for grilling and roasting.						
37179	Cornito Blend	80	Medium	Red, Orange, Yellow	1 ½ x 5"		A multi-colored blend of the three conical peppers, orange, red and yellow. Only available in 100 seed packs.						
Delite Seri	es												
37200	Lemon Delite	60-65	Thick	Yellow	1 ½ x 3"	TMV ⁰							
37201	Orange Delite	58-65	Thick	Orange	1 ½ x 3"	TMV ⁰	 Delite Series peppers have strong, vigorous plants with good early setting that continues throughout the season. The crunchy, flavorful fruit have perfect size, are smooth and glossy. The plants have good cover. 						
37202	Ruby Delite	60-65	Thick	Red	1 ½ x 3"	TMV ⁰	peneti size, are smooth and glossy. The plants have good tover.						
37203	Delite Blend						A blend of the three Delite sweet cones.						
Sweetie Se	eries												
37190	Sweetie Orange	70	Thick	Orange	2 ½ - 3" long								
37191	Sweetie Red	70	Thick	Red	2 ½ - 3" long		These peppers are extremely sweet and the perfect size for snacking. Uniform fruit feature an open seed cavity. They grow great in both open fie and protected culture.						
37192	Sweetie Yellow	70	Thick	Yellow	2 ½ - 3" long		מוזע אוטוביובע נעונעופ.						
37193	Sweetie Blend	70	Thick	Orange, Red, Yellow	2 ½ - 3" long		A multi-colored blend of the three Sweetie Peppers. Only available in 100 seed packs.						
Other Swe	et Cones												
37174	Oranos	70	Medium	Orange	1 ½ x 7"	TMV ⁰	The most outstanding orange conical hybrid available! A very early variety that produces vigorous plants with fruit that are especially appreciated for their unique flavor and product presentation. Sets well in the beat						
37174	Oranos	70	Medium	Orange	1 ½ x 7"	TMV⁰							









TOZER^TSEEDS

SWEETIE YELLOW



ORANOS

SAKATA

LOLA



SWEET SUNSET

LIKE US ON FACEBOOK!



GODIVA

PEPPERS **MISCELLANEOUS** Hybrid ▼ Variety Flesh Color Disease item # Features Days Banana Medium vigorous plant with uniform fruits. Fresh and processing harvests with heavy 37802 Godiva 70 Thick Yellow TSW concentrated sets. Widely adapted variety well suited where bacterial leaf spot or TSWV are a concern. High BLS^{0-3,7,8}, 60 -Light Green yield potential of large and extra-large fruit. Plants are medium strong and vigorous with 37038 Lola good cover. 65 Thick to Red TSW Light Yellow Sweet Sunset has a good disease resistance package, high yield potential and is easy to Sweet Sunset X3R® BLS 0-3,7,8 37082 70 grow. Used for 2nd early in the processing industry. Also known as SV3782PP. Thick to Red

PEPPERS SWEET C	ONES	b Hybrid			M=1,0	000 seeds
Priced per package	100 Seeds	500 Seeds				
Price per 1,000 seeds (M)			1M	5M	25M	50M
Cornito Series						
37199 Cornito Arancia	22.15	98.00	140.00	129.60	123.40	118.65
37195 Cornito Giallo	14.95	66.10	94.40	87.40	83.20	80.00
37198 Cornito Rosso	14.95	66.10	94.40	87.40	83.20	80.00
37179 Conical Blend	26.15					
Delite Series						
37200 Lemon Delite	58.60	259.25	370.35	342.90	326.55	313.95
37201 Orange Delite	58.60	259.25	370.35	342.90	326.55	313.95
37202 Ruby Delite	58.60	259.25	370.35	342.90	326.55	313.95
37203 Delite Blend	69.15					
Sweetie Series						
37190 Sweetie Orange	32.25	142.55	203.60	188.50	179.50	172.55
37191 Sweetie Red	32.25	142.55	203.60	188.50	179.50	172.55
37192 Sweetie Yellow	32.25	142.55	203.60	188.50	179.50	172.55
37193 Sweetie Blend	38.10					
Other Sweet Cones						
37174 Oranos	56.80	251.20	358.80	332.20	316.35	304.15
* Multiple packages may be	used to fill	orders for t	hese quanti	ties.		

PEPPERS MISCELLA	d		M=1,00	00 seeds		
Priced per package	100 Seeds	500 Seeds				
Price per 1,000 seeds (M)			1M	5M	25M	50M
Banana						
37802 Godiva	12.30	54.25	77.50	71.75	68.30	65.65
37038 Lola	13.80	60.90	87.00	80.55	76.70	73.75
37082 Sweet Sunset X3R®	13.90	61.40	87.70	81.20	77.30	74.30
* Multiple packages may be u	cod to fill or	dorc for thos	o quantitio	c		

* Multiple packages may be used to fill orders for these quantities.



GHOSTSubconical to conical shape measuring 2.5 to 3.5 inches in length. Approximately three times hotter than typical habaneros. Red is the most
common color at maturity, with orange, yellow and chocolate as rarer
varieties.JALAPEÑO
Fruit are thick walled, conical shaped, dark green when immature turnin

Fruit are thick walled, conical shaped, dark green when immature turning red at maturity and most cultivars are highly pungent. Fruit may show cracking or corkiness which is a desirable trait in Mexico. Length vary widely. Use canned, pickled, salsas or fresh. When dried, by smoking, they are called chipotle.

PEPPERS (Hot)

Fruit range from 4 - 12" long and 2" wide, green to red at maturity, but also may be yellow, orange to brown. Varieties range from sweet to hot. Use green as fresh, canned or frozen. Mature are usually dried and ground into chili powder or paprika if sweet. Also used in salsas.

The fruit are heart shaped, pointed, thin walled with an indented stem attachment. Immature fruit are dark green with mature fruit being either red or brown. Fruit are 3 - 4" long and about 2" wide and are mildly

Mature red fruit are 5 - 10" long and wrinkled. Irregular in shape, highly pungent, often used as dried, ground powder. Also used fresh in salads,

Like the name suggests, round or slightly flattened, green to red, hot or

In this species, diversity is enormous. Popular in Jamaica, Yucatan and Brazil. Very, very hot and persistent, but aromatic. Fruit are $1 - 2\frac{1}{2}$ long and $1 - 2^{"}$ wide. Green to variable mature colors of yellow, orange, red or white. Use dried as a spice, fresh or processed. Plant starts slower

CHINENSE (Habanero-Scotch Bonnet- Bahamian-Jamacian)

pungent. The pepper of choice to make chili rellenos.

ANAHEIM (Hatch - New Mexican chili)

ANCHO (Poblano)

sauces and dishes.

sweet. Similar use to wax pepper.

than other pepper types.

CAYENNE

CHERRY

ORNAMENTALS

Peppers classified as ornamentals do not carry a characteristic that makes them in-edible. They are individuals from the many groups previously listed that happen to have leaves and fruit that are particularly attractive and give them ornamental value.

PASILLA

Pod length is 6 - 12" long and 1 - 2" wide. Fruit color is dark green, turning brown at maturity. Usually dried before use in moles and salsas.

RED CHILI

Fruit are 2%'' long by %'' wide, green when immature changing to red at maturity. Fruit have thin walls, taper to a point and are used for drying, processing and sauce. Hot!

SERRANO

Fruit are $\frac{1}{2}$ " wide and 2 - 3" long. Medium walls and shaped similar to Jalapeño and is the pepper of choice in Salsa Verde and other southwestern relishes.

THAI HOT

Green fruit to red at maturity, very hot, tiny 3/8" wide by 1" long fruit. Popular in oriental markets.

WAX

Yellow when immature, orange-red at maturity. Can be pungent or non-pungent. Vary from 2 - 8" long and about 2" wide. Use pickled or fresh in salads and relishes.

| Peppers - Hot

76

MAMMOTH







LAMBO



SPITFIRE

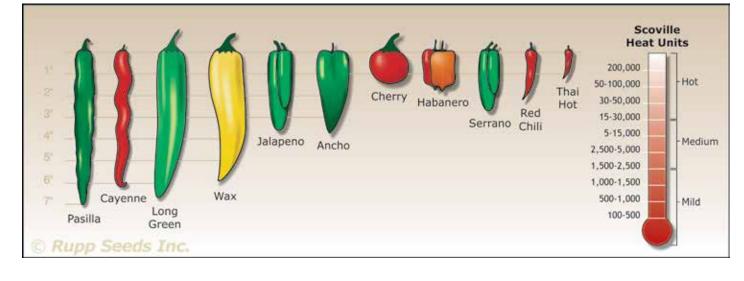




TIBURON



ARAPAHO



PEPPEF	PEPPERS		T Hybric	k	Pricing on page 78			
ltem # Anaheim	Variety	Days	Flesh	Color	Relative Scoville Rating	Disease	Use	Features
37412	Charger	75	Thick	Green to Deep Red	1,000 to 2,000	TSW	FM	The leader in Anaheims with large, smooth, two lobed fruit. Vigorous, erect plant with excellent foliage cover protecting the fruit.
37546	Lambo	75	Thick	Medium Green to Red	1,000 to 2,000	TSW, BLS ^{1,2,3}	FM	A medium-large plant that has large leaves providing excellent cover for the high yields it produces. The fruit are a tapered traditional shape, green to red in color and thick walls.
37462	Spitfire			Green to Red	90 to 130	РНҮ	FM	Only known Anaheim hybrid with phytopthora resistance. Large fruit size.
Ancho / Po	oblano							
37457	Sargento	80- 85	Thick	Glossy Dark Green to Red	350 to 1,750	РНҮ	FM	An extra-large fruited poblano Ancho with very good quality tha is suited for multiple harvests. The fruit are mid-long tapering firm, straight, and have a high percentage of two lobes. Intermediate resistance to phytophthora. Suited for the fresh and drying market.
37455	🛨 Tiburon	73	Thick	Very Dark Green to Red	250 to 1,500		FM	A true poblano producing excellent yields of extra large fruit for stuffing or drying; continuous fruit set.
Cayenne			_				_	
37458	Arapaho Cheyenne	70	Thick	Light Green to Red	2,000 to 4,000		FM, P	A cayenne with large, long, narrow fruit. Produces high yields of early maturing fruit; compact plant. Medium pungency.
					•			More varieties on the next page>







REY AKUL





PEPPERS **HOT** Hybrid **Relative Scoville** Variety Color Item # Rating Disease Features Days Flesh Use Hot Cherry Green to FM, Bombita is the perfect shape, 1.25-1.5" average, for pickling, 37467 Bombita 68 Red Ρ stuffing and processing. Great tasting, hot, and easy to pick. Produces red, hot cherry peppers with a light smoky flavor. Green to FM, Fruit is 1.6 x 1.6". Has light heat and are great pickled, 37417 Time Bomb 65 1,000 TMV Red Р processed or chopped into salsas. Habanero This is a highly vigorous habanero that produces an excellent 115yield of extra-large, bright orange, triangular fruit. Rey Akul is 37495 **Rey Akul** 120 Thin 300,000 FM suitable for open-field and mesh growing habitats. Orange Hot Wax Outstanding early maturing variety that displays a strong 60 -Yellow to FM, branched plant with excellent fruit coverage. Fruit size of 9 x 37422 BLS^{1,2,3} **Blazing Banana** 70 Thick Red 6,000 to 6,500 Ρ 1.75 - 2". 60 -Yellow to FM, A pendant, hot banana type for fresh market or pickling. Very 37408 Inferno 65 Medium Red 2,500 to 4,500 Ρ productive and uniform. More varieties on the next page -->

PEPPERS HOT Hybrid M=1,000 seed										
Priced per package	100 Seeds	500 Seeds								
Price per 1,000 seeds (M)			1M	5M	25M	50M				
Anaheim										
37412 Charger	15.15	66.85	95.45	88.35	84.10	80.85				
37546 Lambo	15.15	66.85	95.45	88.35	84.10	80.85				
37462 Spitfire	12.60	55.75	79.60	73.70	70.15	67.45				
Ancho										
37457 Sargento	12.75	56.20	80.25	74.30	70.75	68.00				
37455 Tiburon	8.80	38.85	55.50	51.35	48.90	47.00				
Cayenne										
37458 Arapaho Cheyenne	12.60	55.55	79.30	73.40	69.90	67.20				
Hot Cherry										
37467 Bombita	15.70	69.40	99.10	91.75	87.35	83.95				
37417 Time Bomb	15.40	67.95	97.05	89.85	85.55	82.25				
Habanero										
37495 Rey Akul	13.75	60.75	86.75	80.30	76.45	73.50				

PEPPERS HOT Hybr	id				M=1,0	00 seeds
Priced per package	100 Seeds	500 Seeds				
Price per 1,000 seeds (M)			1M	5M	25M	50M
Hot Wax						
37422 Blazing Banana	13.55	59.85	85.50	79.15	75.35	72.45
37408 Inferno	11.80	52.10	74.40	68.85	65.55	63.00
Jalapeño						
37476 Jedi	12.90	56.90	81.25	75.20	71.60	68.80
37448 Mammoth	12.90	56.90	81.25	75.20	71.60	68.80
37494 Ring Maxx	10.35	45.65	65.20	60.35	57.45	55.20
37410 SV3198HJ X3R®	12.75	56.35	80.50	74.50	70.95	68.20
37419 SV8066HJ X3R*	14.40	63.70	90.95	84.20	80.15	77.05
37479 Trickster	12.50	55.15	78.75	72.90	69.40	66.70
37430 Tzotzil ^{F300}	12.75	56.25	80.30	74.35	70.80	68.05











JEDI

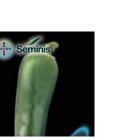
маммотн

Seminis

SV8066HJ X3R®

JS Agriseeds

TRICKSTER



TZOTZIL

PEPPE	ERS		HOT	F Hybrid					
ltem # Jalapenc	5	Variety	Days	Flesh	Color	Relative Scoville Rating	Disease	Use	Features
37476		Jedi	70- 75	Thick	Dark Green	2500-3600	BLS ^{1,2,3}	FM, P	Jumbo fruit size with main season maturity. Exhibits outstanding quality and exceptional yield. Fruits are firm, very uniform, and show excellent tolerance to checking /cracking.
37448	*	Mammoth	72	Very Thick	Dark Green	3,000 to 5,000	PVY, TMV	FM, P	Truly "mammoth" in size, this jalapeño is very adaptable for the most discerning markets. Superior yields complement its excellent fruit quality. Continuous set provides for extended harvest window.
37494	NEW	Ring Maxx	60- 75	Thick	Dark Green	750 to 1,000	BLS ¹⁻³	Р	This vigorous jalapeno has medium pungency, is cylindrical and firm, has minimal cracking, and is ideal for processing markets.
37410	\star	SV3198HJ X3R®	68	Thick	Dark Green to Red	750 to 1,000	BLS 0,3,7,8	FM, P	Hot nacho jalapeno with concentrated set of long, cylindrical fruit. Slow to check.
37419		SV8066HJ X3R®	74	Thick	Dark Green to Red	0	BLS 0-3, 7,8	FM, P	Offers jalapeno flavor with no heat. Great for blending with hot jalapenos to customize heat level of salsa or hot sauce.
37479		Trickster	75	Thick	Dark Green to Red	0	BLS ^{1,2,3}	FM, P	A hybrid No-Heat Jalapeno. Extra large, thick walls, uniform cylindrical fruit on a medium to large plant.
37430		Tzotzil 🌘	60	Very Thick	Dark Green to Red	750 to 1,000	BLS ^{0,3,7,8} , PHY	FM, P	Phytopthora tolerant version of PS 11435810. Fruit may be a little longer and slightly more narrow than the 5810.
									More varieties on the next page>





PEPP	ERS	HO	F Hybrid					
Item #	Variety	Days Flesh Color		Color	Relative Scoville Rating	Disease	Use	Features
Wiscella	neous Hot							
37510	NEW Pathfinder	60- 75	Thick	Dark Green	9,000	TMV ⁰ , BLS ^{0-3,7,8}	FM	This serrano maintains its large size throughout the produc- tion cycle. High yielding. The peduncle is a key component of Pathfinder as it keeps its dark green color as well, providing a better shelf life and fresh appearance.
37420	Takara	60	Thin	Bright Green to Bright Red	50 to 200		FM	Typical shishito type pepper with small fruit and mild but rich flavor. The compact plant has a spreading habit, short inter- nodes, is well branched and has high production potential. The fruit uniformity is superior to OP strains. The peduncle holds well to the fruit.

PEPPERS HOT Hybri	d				M=1,0	00 seeds
Priced per package	100 Seeds	500 Seeds				
Price per 1,000 seeds (M)			1M	5M	25M	50M
Miscellaneous Hot						
37510 Pathfinder	10.55	46.55	66.50	61.55	58.60	56.30
37420 Takara	13.65	60.25	86.05	79.65	75.85	72.90
* Multiple packages may be	used to fill o	orders for th	ese quantit	ies.		



	December6%
	January
	February 4%
	March
	April2%
-	

PEPPE	RS	HO	HOT OP Heritage Varieties									
Item #	▼ Variety	Days	Flesh	Color	Class Type	Relative Scoville Rating	Use	Features				
37502	Cayenne Long Slim	72	Thin	Green to Red	Cayenne	30,000 to 50,000	Р	Very productive, pungent, home garden variety.				
37501	Hungarian Yellow Wax	70	Medium Thick	Yellow to Red	Wax	750 to 3,000	FM, P	Cylindrical fruit are 6 to 8" long x 1 ½ - 2" diameter fruit.				
37512	Red Cherry Large	75	Medium Thick	Medium Green to Red	Cherry	3,500	FM, P	Processing, home garden, and pickling.				

PEPPERS HOT OP Heritage Vari	ieties	M=1,000 seeds						
Priced per package	1/2 oz	1 oz.	4 oz	1#				
37502 Cayenne Long Slim	6.50	9.45	29.40	85.20				
37501 Hungarian Yellow Wax	6.50	9.45	29.40	85.20				
37512 Red Cherry Large	8.60	12.50	39.00	113.00				

PUMPKIN PLANTING/HARVESTING TIMING CHART

Pumpkin growers who are planting multiple varieties need to consider multiple planting dates so that they can harvest their crop at its peak. The planting date plus the maturity of the variety should equal the potential harvest date. Keep in mind that higher or lower than average heat and sunlight may also impact the development of the crop by decreasing or increasing its maturity.

Use the following chart to align your pumpkin variety maturity with your desired harvest date to schedule planting.

Variety	Planting Date: May 1	Planting Date: May 15	Planting Date: June 1	Planting Date: June 15	Planting Date: July 1
Maturity	Harvest Range	Harvest Range	Harvest Range	Harvest Range	Harvest Range
80	July 10 - July 30	July 24 - Aug. 13	Aug. 10 - Aug. 30	Aug. 24 - Sept. 13	Sept. 9 - Sept. 29
85	July 15 - Aug. 4	July 29 - Aug. 18	Aug. 15 - Sept. 4	Aug. 29 - Sept. 18	Sept. 14 - Oct. 4
90	July 20 - Aug. 9	Aug. 3 - Aug. 23	Aug. 20 - Sept. 9	Sept. 3 - Sept. 23	Sept. 19 - Oct. 9
95	July 25 - Aug. 14	Aug. 8 - Aug. 28	Aug. 25 - Sept. 14	Sept. 8 - Sept. 28	Sept. 24 - Oct. 14
100	July 30 - Aug. 19	Aug. 13 - Sept. 2	Aug. 30 - Sept. 19	Sept. 13 - Oct. 3	Sept. 29 - Oct. 19
105	Aug. 4 - Aug. 24	Aug. 18 - Sept. 7	Sept. 4 - Sept. 24	Sept. 18 - Oct. 8	Oct. 4 - Oct. 24
110	Aug. 9 - Aug. 29	Aug. 23 - Sept. 12	Sept. 9 - Sept. 29	Sept. 23 - Oct. 13	Oct. 9 - Oct. 29
115	Aug. 14 - Sept. 3	Aug. 28 - Sept. 17	Sept. 14 - Oct. 4	Sept. 28 - Oct. 18	Oct. 14 - Nov. 3
120	Aug. 19 - Sept. 8	Sept. 2 - Sept. 22	Sept. 19 - Oct. 9	Oct. 3 - Oct. 23	Oct. 19 - Nov. 8

Pumpkin quality will be the best when harvested nearest to the variety's actual maturity.

First, select the maturity of the variety you are using, then pick the date you would like your pumpkins to look the freshest (nice green handle). The required planting date will be at the top of the column.

For example; if you are planting Gold Medal (95 day) and you want them to look their freshest on September 15th, you will want to plant on June 15. However, if you are planting Gold Rush (120 day) and you also want them to look their freshest on September 15th, you will want to plant on May 15.



PUMPKINS

PLANTING

Plant pumpkins $\frac{1}{2}$ " - 1" deep. For a general rule of thumb plant seed the depth of three times the thickness of the seed. Plant spacing varies depending on fruit size. If planting a large pumpkin give plant approximately 72 sq. ft. of space. Medium sized pumpkins require 30 sq. ft. of space. Pie pumpkins require 24 - 30 sq. ft. of space. Miniature pumpkins require 10 - 24 sq. ft. of space.

See "Germination Chart" on page 125 for additional information on germination rate and days to germination at various soil temperatures.

POWDERY MILDEW RATINGS

HR - High Resistance IR - Intermediate Resistance T - Tolerant

MANAGEMENT

Scout fields every 7 days to ensure crop health. Look for insect, weed, and disease pressure. The first three weeks focus on weeds and insect pressure. Then focus on disease pressure. For weed, insect, and disease identification and treatments consult the Midwest Vegetable Production Guide:

www.ruppseeds.com/MVPG or your local extension. Place pollinators in field to ensure maximum fruit set.

HARVEST

Harvest when fruit has developed deep color. Handles will appear dry. Cut handles with shears to protect handles from being broken off.

STORAGE

Clean fruit of dirt and wash in 5% chlorine solution. Let air dry and cure for 10 - 12 days. Make sure air is able to circulate around fruit. It is important to keep fruit dry.

PLANT SPACING

Each variety or type of pumpkin has an optimum plant spacing for its best performance. If plants are too close, stress and competition can decrease fruit size and possibly reduce the number of female flowers. Under extreme stress, tight spacing may eliminate the crop entirely.

- Optimum spacing for maximum yield, especially for jack-o-lantern pumpkins, will not necessarily be the best spacing for large fruit size. For large fruit, we would suggest reducing plant density to the next recommended plant population.
- Accurate plant spacing will be an equal opportunity environment for every plant.
- Suggested populations are for final plant stands.
- To achieve ideal plant populations it is necessary to either overplant and hand thin or to plant according to recommendations and hand plant later to fill skips.
- Seed corn maggots, wire worms, mice and birds, floods or lack of rain are all common problems that effect accurate stand establishment.

PUMPKIN SPACING CHART									
	Row Width	Distance Between Plants	Plants Per Acre						
Category 1	12'	6'	605						
Category 2	7 ½ to 9′	4'	1,210 to 1,450						
Category 3	6 to 7 ½'	4'	1,450 to 1,815						
Category 4	5 to 6'	2'	3,600 to 4,350						





MONSTER SMASH

WORLD OF COLOR

GROWER PREFERRED ALL-STARS

XTRA LARGE

With its early 95 day maturity, growers can plant **Early Giant** later and still get orange pumpkins for fall. This makes it a preferred choice when challenging spring weather delays planting.

Growers are still telling us that **Solid Gold** is one of the best varieties that they have ever grown. It is the most uniform 20-25 lb. variety on the market. Remember to give it room, 25 square feet per plant at a minimum. It also has a 105 day maturity so plant accordingly. Its dark orange color and large handle make Solid Gold a winner.

LARGE

A long awaited variety in the powdery mildew resistant class with a nice black handle atop a really dark orange, deep ribbed fruit is **Bayhorse Gold**. An 18-22 lb. fruit average make this one a sure winner for the wholesale market.

Carbonado Gold is a 40 count pumpkin that has a very uniform, round shape with strong PMT. Its dark orange fruit with black handles will make this variety an industry standard.

MID SIZE

Growers tell us **Gold Standard** is the highest yielding 13-15 lb. pumpkin in the market. Its dark orange fruit and nice handles make it a winner.

Skidoo Gold is a powdery mildew tolerant pumpkin in the 12-15 lb. size. Its dark color and handle with uniform fruit make this variety a standout.

Barry Rupp Sales Manager



GROW YOUR BEST PUMPKINS YET!

Our pumpkin guide features tips from product selection through planting and harvest. Visit our website to download it or request a printed copy.

www.ruppseeds.com/PumpkinGuide

SMALL / PIE

PUMPKINS

Fort Knox will set itself apart at any farm stand or produce auction. With its burnt orange color and remarkable handle quality, you will see why it has become popular with growers. Not too mention its yield.

Prankster is a 3-5 lb. powdery mildew resistant pie pumpkin that is dark orange, deep ribbed, and has a very nice sized black handle making this one of the prettiest pie pumpkins on the market.

MINIATURE

A mini pumpkin with powdery mildew tolerance, **Gold Speck** delivers very uniform darker orange fruit, has a larger stem and is higher yielding than similar miniature varieties. Gold Speck is 20% smaller than Jack-B-Quik.

SPECIALTY

With the red veins on a white background, **One Too Many** is the only thing like it on the market. That is what makes it sell.

WHITE

At 20-30 lb. average, **Crystal Star** is one of the largest white pumpkins on the market. Its round shape and classic white color make this fly off the shelf. It has a large vine, so give it room to grow.

The acreage for **White Gold** continues to increase with every size grower - fresh market and wholesalers alike. It has one of the best abilities to stay white and maintain a dark handle.

PUMPI	KINS	GIA	NT	C			
Item #	▼ Variety	Days	Weight pounds	Skin	Vine	Spacing Category	Features
38501	Dill's Atlantic Giant PVP	120	100 - 600	Orange	Very Large	1	Produces giant show pumpkins.
38092	Monster Smash FI 🞷	120	50 - 150	Bright Orange	Very Large	1	Complete with slightly flattened/round fruit with moderately defined ribbing, this Rupp release is targeted for those growers who want to enhance their already existing Rupp "Gold Series" pumpkin line. Without question, a Rupp giant pumpkin that is sure to be a "smashing" success!
38007	Prizewinner 🕫 🏷	120	50 - 200	Orange	Very Large	1	An excellent display pumpkin with superior shape and color to Atlantic Giant.
38074	World of Color ^{Blend} 💔	120	50 - 125	Multi Colored Mix	Very Large	1	A Rupp product that is a blend of very large pumpkins with coats of many colors. The base of the blend will be a dark red-orange pumpkin that does not fade in the sun. Other colors are white, pink & blue, hubbard blue, plus peach and other nuances discovered in our breeding nursery. All of the fruit are pumpkin shaped and will definitely create a new concept in fall displays.
PUMPI	KINS GIANT			M=1,	000 seed	s PUI	MPKINS GIANT M=1,000 seeds
	riced per package Priced per pound uese package sizes	1 oz. 4	4 oz. 1	# 5#	Seeds /Ib.		25 100 250 Priced per package Seeds Seeds Seeds in part 1 000 could (M) Seeds

1.400

1M 3M 38092 Monster Smash 20.70 68.90 127.55 340.10 336.85 2,900 38007 Prizewinner FI400 32.85 109.45 202.65 540.30 537.05 1,300 38074 World of Color Blend 21.35 71.15 131.75 351.25 348.00 1,200

18.85

38501 Dill's Atlantic Giant

49.55 148.95 145.95

















EARLY KING

PUMP	'KIN	IS	XTR	A LAR	GE			Pricing on page 86			
ltem #		▼ Variety	Days	Weight pounds	Skin	Powdery Mildew	Vine	Spacing Category	Bin Count	Features	
38060		Bellatrix 🗈 🍉	95	25+	Orange	IR	Large Vine	1 or 2	35	Large, round, dark green h	, attractive orange pumpkin with a strong andle.
38125	NEW	Bodie RPX5243 F1 🌈 🏷	100	20 - 25	Dark Orange	IR	Vine	3	35	orange pump of the Ohio R while south o market. Grow	ow almost anywhere. It's a round, dark okin with a strong, handsome handle. No iver, Bodie will hit the 35-count bin mark of the Ohio River it hits the 40-count bin ring to around 25 lbs, Bodie is an excelle sh markets and wholesalers.
38551		Captain Jack 🕫 🏷	105	30+	Dark Orange		Large Vine	1 or 2	30	bottom to he	PLY A variety that has thick flesh and a fla Ip fruit stand straight under its heavy we e embedded handle.
38124	NEW	Crisson RPX6451 F1 🎷 🏷	100	20 - 25	Medium Dark Orange	IR	Vine	3	35	dark handle i easy. Spaced day in the up Ohio River. Ir	impressive dark orange pumpkin. Its stro makes moving this 20-25 lb ribbed pum properly, Crisson will fill 35-count bins a per Midwest and 40-count bins near the n the mountain regions of the southeast, ?7 lbs and still maintain its shape.
38009	\star	Early Giant 🗉 🏷	95	25 - 30	Dark Orange	IR	Large Vine	2	30 - 35		on a productive plant with excellent ora ediate resistance to powdery mildew.
38011		Early King 🗈 🏷	90	22 - 28	Deep Orange	IR	Large Vine	2	35		t on a productive plant with excellent or ediate resistance to powdery mildew.
38123		Giltedge Gold 🗉 🌈 🏷	100	18 - 24	Orange	IR	Medium Vine	2	35-40		e an elevated shape with a rough texture handles. To maintain fruit weight, do no ants.
38071		Gold Medallion 🗈 🌈 🏷	110	30+	Orange		Large	1 or 2	30		d to Gold Medal that is 2 lbs. larger and I.S. Patent #5,811,642.
38523		Gold Rush 💔 🏷	120	20 - 35	Deep Orange		Large	1 or 2	30		pumpkin with handles 4" long and 3" in ck flesh and heavy. U.S. Patent #5,811,64
38500		Jumpin Jack ™ 沙	120	20 - 40	Orange		Large Very Vigorous	1 or 2	30	Very large, w	ell handled, taller than wide variety.
38090		Large Marge E	105	30 - 40	Dark Orange		Vine	1 or 2	30	embedded h ple fruit per p	large Sakata pumpkin with a large, dark andle to match the fruit size. Can set mu plant and maintain size. Blocky round sh wrinkled skin.
38537		Ol Zeb's 🌈	110	20 - 30	Light Orange		Medium	2	35	florescent or	okin developed in Canada. It has a uniqu ange color and a long wispy handle that ticular heirloom look. A high yielder.
38072		Phat Jack Ò	125	50 +	Orange		Medium	1 or 2	25	A very large J	ack O' Lantern. Tall with a thick handle.
38117		Quigley Gold 🛙 🌈 🍆	100	22 - 26	Dark Orange	IR	Medium Vine	2	30-35	this a great a slight ribbing	ure with varying amounts of warts make ddition to fall displays. The round fruit w g has some gold flecking and a dark han for green warts.
38085	\star	Solid Gold 🗈 🌈 🏷	100	25	Deep Orange		Medium	2	35		d that has performed very well on the fa t color, handles and yields.



GILTEDGE GOLD





GOLD RUSH







OL ZEB'S







BANNACK GOLD

Rupp

BAYHORSE GOLD



CARBONADO 🗡 GOLD



EAGLE CITY GOLD

Rupp

GARNET GOLD

PUM	PKINS	LAR	GE		Pricing on page 86				
ltem #	▼ Variety	Days	Weight pounds	Skin	Powdery Mildew	Vine	Spacing Category	Bin Count	Features
38068	20 Karat Gold F 🂔 🏷	100	18 - 22	Dark Orange	IR	Semi Bush	2	40	A Rupp pmt, semi-bush hybrid with dark orange rind color and good handles. A potential option for the shippe market. U.S. Patent #5,811,642.
38112	Bannack Gold 🗈 💔 🏷	100	16 - 22	Deep Orange	IR	Medium Vine	3	35	Bannack Gold has a unique look with dark flecking and shadowed warts. It has a slightly elevated shape with a w attached handle.
38061	🛨 Bayhorse Gold 🛙 🌮 🌢	100	15 - 20	Very Dark Orange	IR	Vine	3	40	Uniform, slightly elevated hybrid with strikingly gorgeou very dark orange fruit and elongated dark handle. Can be used for roadside sales or wholesale shipping in 40 coun bins. A grower favorite!
38069	🔶 Carbonado Gold 🛙 💔 🌢	100	15 - 18	Very Dark Orange	HR	Vine	3	40	Dynamic Rupp pumpkin variety with extremely uniform shape and strong handle. Similar in weight to Bayhorse Gold, with a more rounded shape. Perfect for 40 count shipping bins or roadside retail market.
38062	Eagle City Gold 🗉 🌈 🌢	100	18 - 24	Medium Orange	IR	Vine	3	35 - 40	The shallow ribs on the round fruit make it an ideal choice for carving. Has intermediate resistance to powdery mildew.
38113	👌 Garnet Gold 🛙 🍞 🏷	100	13 - 17	Dark Orange	HR	Medium Vine	3	40	Beautiful, round fruit have heavy ribbing, strong handles and a uniform shape.
38001	Orange Rave F1	100	15 - 25	Orange	IR	Semi Vine	2	35 - 40	A hybrid with rounded to slightly upright fruit and moderate ribbing. Has preferred dark orange color and intermediate resistance to powdery mildew.
38550	Wolf PVP 🔶	120	15 - 25	Deep Orange		Large	1	40	Round to oblate shaped fruit with moderate ribs and very thick, long handles. The flesh thickness is excellent which helps to prevent against flat-sided fruit and makes them heavy for their size.





GOLD STANDARD



SECRETARIAT



PUMPKINS MID SIZE

38067 Prankster FI400

38116 Yosemite FI400

38047 Touch of Autumn

38047 Touch of Autumn FI400

380470 Touch of Autumn Untreated

38507 Small Sugar Asgrow Strain

250 Priced per package Seeds

Price per 1,000 seeds (M)





100M

25M

BISBEE GOLD

зм

1M

PUM	PKINS XTRA LAR	GE			M=1,0	000 seeds
	Priced per package	250 Seeds				
	Price per 1,000 seeds (M)	Jeeus	1M	3M	25M	100M
38060	Bellatrix FI400	40.05	106.70	103.45	100.95	99.65
38125	Bodie FI400	47.25	125.90	122.65	120.15	118.85
38551	Captain Jack FI400	43.60	116.25	113.00	110.50	109.20
38124	Crisson FI400	47.25	125.90	122.65	120.15	118.85
38009	Early Giant FI400	37.55	100.10	96.85	94.35	93.05
38011	Early King FI400	38.00	101.25	98.00	95.50	94.20
38123	Giltedge Gold FI400	48.00	127.90	124.65	122.15	120.85
38071	Gold Medallion	19.75	52.65	49.40	46.90	45.60
38071	Gold Medallion FI400	22.25	59.25	56.00	53.50	52.20
38523	Gold Rush	14.70	39.20	35.95	33.45	32.15
38523	Gold Rush FI400	17.20	45.80	42.55	40.05	38.75
38090	Large Marge FI400	43.60	116.25	113.00	110.50	109.20
38117	Quigley Gold F1400	48.55	129.40	126.15	123.65	122.35
38085	Solid Gold	33.40	89.05	85.80	83.30	82.00
38085	Solid Gold FI400	35.90	95.65	92.40	89.90	88.60
	Priced per package	1 oz.	4 oz.			
	Priced per pound in these package sizes			1#	5#	25#
38500	Jumpin' Jack ™	8.75	25.90	79.65	76.65	74.65
38537	Ol Zeb's	7.90	23.35	71.70	68.70	66.70
38072	Phat Jack FI400	17.80	52.60	161.80	158.80	156.80
						_

38045	Gold Standard	17.45	46.50	43.25	40.75	39.45	3,100
38045	Gold Standard FI400	19.95	53.10	49.85	47.35	46.05	3,100
38045U	Gold Standard Untreated	17.45	46.50	43.25	40.75	39.45	3,200
38034	Secretariat FI400	38.10	101.50	98.25	95.75	94.45	3,000
38076	Skidoo Gold FI400	40.30	107.40	104.15	101.65	100.35	2,800
PUN	IPKINS SMALL /	PIE				M=1,00	0 seeds
		250					
	Priced per package	seed					Seeds
	Priced per package Price per 1,000 seeds (M)	seed	1M	ЗМ	25M	100M	Seeds /lb.
38075		seed	1M 115.50	зм 112.25	25М 109.75	100М 108.45	
	Price per 1,000 seeds (M)		_	_		_	/lb.
38126	Price per 1,000 seeds (M) Bisbee Gold ^{F1400}	43.35	115.50	112.25	109.75	108.45	/lb. 3,100
38126 38020	Price per 1,000 seeds (M) Bisbee Gold ^{FI400} Cortez ^{FI400}	43.35 41.20	115.50 109.75	112.25 106.50	109.75 104.00	108.45 102.70	/Ib. 3,100 2,500
38126 38020 38115	Price per 1,000 seeds (M) Bisbee Gold R400 Cortez R400 Darling R400	43.35 41.20 39.95	115.50 109.75 106.45	112.25 106.50 103.20	109.75 104.00 100.70	108.45 102.70 99.40	/lb. 3,100 2,500 4,100
38126 38020 38115 38003	Price per 1,000 seeds (M) Bisbee Gold FI400 Cortez FI400 Darling FI400 Fort Knox FI400	43.35 41.20 39.95 44.45	115.50 109.75 106.45 118.50	112.25 106.50 103.20 115.25	109.75 104.00 100.70 112.75	108.45 102.70 99.40 111.45	/lb. 3,100 2,500 4,100 2,500
38126 38020 38115 38003 38038	Price per 1,000 seeds (M) Bisbee Gold R400 Cortez R400 Darling R400 Fort Knox R400 Jack Sprat R400	43.35 41.20 39.95 44.45 39.70	115.50 109.75 106.45 118.50 105.75	112.25 106.50 103.20 115.25 102.50	109.75 104.00 100.70 112.75 100.00	108.45 102.70 99.40 111.45 98.70	/Ib. 3,100 2,500 4,100 2,500 5,800

26.75

12.75

15.25

12.75

42.10

5.70

71.30

34.00

40.60

34.00

4 oz.

16.75

68.05

30.75

37.35

30.75

1#

51.50

112.15 108.90 106.40 105.10

65.55

28.25

34.85

28.25

5#

48.50

64.25

26.95

33.55

26.95

25#

46.50

3,400

5,500

5,500

5,500

2,400

/lb

3,700

PUMPKINS LARGE				M=1,0	000 seeds
Priced per package	250 Seeds				
Price per 1,000 seeds (M)		1M	3M	25M	100M
38068 20 Karat Gold	24.90	66.30	63.05	60.55	59.25
38068 20 Karat Gold FI400	27.35	72.90	69.65	67.15	65.85
38112 Bannack Gold FI400	46.65	124.35	121.10	118.60	117.30
38061 Bayhorse Gold FI400	47.25	125.90	122.65	120.15	118.85
38069 Carbonado Gold FI400	49.45	131.75	128.50	126.00	124.70
38062 Eagle City Gold FI400	42.25	112.65	109.40	106.90	105.60
38113 Garnet Gold FI400	47.45	126.45	123.20	120.70	119.40
38001 Orange Rave FI400	40.80	108.80	105.55	103.05	101.75
38550 Wolf FI400	32.80	87.40	84.15	81.65	80.35

Priced per package	250 Seeds				
Price per 1,000 seeds (M)		1M	зм	25M	100M
20 Karat Gold	24.90	66.30	63.05	60.55	59.25
20 Karat Gold FI400	27.35	72.90	69.65	67.15	65.85
Bannack Gold FI400	46.65	124.35	121.10	118.60	117.30
Bayhorse Gold F1400	47.25	125.90	122.65	120.15	118.85

CURIOUS ABC	OUT THE NAME	ES OF OUR	PUMPKINS?
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Montana's gold rush started in 1863 at Bannack – check it out and read about Montana's mining history and view photos. www.ruppseeds.com/PName









JACK SPRAT





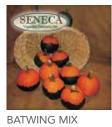


PRANKSTER



PUMPKINS **MID SIZE** Diameter Height Weight pounds Spacing Category Powdery Mildew Bin ▼ Variety Skin Vine Features Item # Days Count A Rupp pumpkin with good handles, high yields and deep orange color. Will blend Deep Restricted right in with Howden to bring the average Gold Standard 🗉 🍞 🌒 90 38045 3 45 13 x 13" 16 size down. Orange Vine Prolific plants produce beautiful, slightly-flat-Dark tened fruit with thick handles. Works well for Restricted Secretariat F1 🧭 38034 105 12 x 9" 45 15 IR 3 binned markets or road-side growers. Orange Vine Blocky, heavily ribbed, mid-sized hybrid with powdery mildew tolerance. Improved uni-Deep Restricted formity and color over comparable varieties. Skidoo Gold 🗉 🂔 🏈 38076 90 45 10 x 11" 12 - 15 Orange HR Vine 3 Skidoo Gold can produce high yields.

PUMP	KINS	SM/	ALL / PIE						
Item #	▼ Variety	Days	Diameter Height	Weight pounds	Skin	Powdery Mildew	Vine	Spacing Category	Features
38075	Bisbee Gold 🗉 🌮 🏷	90	6 ½ x 6 ½"	6 - 7	Dark Orange	HR	Semi Bush	3	Gorgeous dark orange fruit and jet black handles. Has tremendously refined ribbing and high resistance to PM. Top of the line!
38126	Cortez 196201 F1 🌈 🏷	90	5 x 5"	2 - 3	Orange	IR	Semi Bush	3	Orange pie pumpkin with a strong dark green handle. Cortez is known to produce high yields and is well suited for the boxing market.
38020	Darling 🗈 🍉	90	8 x 12"	6 - 8	Dark Orange	IR	Semi Bush	3	Unique tall pie pumpkin with intermediate resistance to powdery mildew.
38115	🔶 Fort Knox 🕜 🌢	90	7 x 7"	6	Dark Orange	HR	Medium	3	Great for school groups! High yielding pumpkin with a handle that appears as indestructible as its namesake.
38003	Jack Sprat 🕫 🍉	100	6" x 5"	2 - 3	Dark Orange	IR	Semi Bush	3	Fruit have a nice dark orange exterior and dark green embedded handles. Very uniform in size and shape. High fruit numbers per plant with an excellent yield potential.
38038	Pik-A-Pie 🕫 🌈 🏷	85	6 x 5"	5 - 6	Orange		Semi Bush	3	Produces uniform fruit with a large, dark green handle. Yields an abundance of excellent quality pumpkins.
38067	🔶 Prankster 🕫 🌮 🏷	85	6 x 4"	3	Dark Orange	IR	Semi Bush	3	An excellent stemmed powdery mildew tolerant pumpkin. Good size for boxing, painting and the school market.
38507	Small Sugar Asgrow Strain	100	6 x 7"	5 - 6	Orange		Medium	3	A selection with a distinctly superior handle when compared to other Small Sugar strains.
38047	Touch of Autumn F	95	6 x 5"	2 ¼	Medium Orange	IR	Semi Bush	3	Great for school groups! A hybrid, with excellent handles and is just the right size for boxing. In most university trials is the highest yielding in fruit numbers and pounds per acre.
38116	🖈 Yosemite 🌈 🏷	90	6 ½ x 7"	6-7	Deep Orange	IR	Medium	3	Great for school groups! Yosemite's extra-long handle makes it an attractive addition for your farm market. Our trial cooperators love its "stunning shape and color." Stores extremely well.



















SPARK

PUMPK	INS	MIN	IIATURE						
Item #	▼ Variety	Days	Diameter Height	Weight pounds	Skin	Powdery Mildew	Vine	Spacing Category	Features
38548	Batwing Mix	90	3"	1/4	Orange/ Green		Semi Bush	4	A unique orange and dark green colored pumpkin when harvested early to full orange color at maturity.
38066	Gold Dust 🛙 🌈 🏷 1	95	3 ½ x 2"	1/3	Orange	IR	Semi Bush	4	A Rupp developed semi bush hybrid with darker fruit than Jack-B-Quik plus powdery mildew tolerance. Most fruit set close to the crown early and escape virus flecking. Waiver Needed: Our current seed lot may produce up to 15% fruit that vary in shape, color, and size. We ask that you sign the "Gold Dust Agreement" on page 165.
38077 🗡	🕻 Gold Speck FI 🌮 🌢	95	3 x 2"	1/4	Orange	IR	Bush	4	A Rupp sister bush hybrid to Gold Dust, with similar vine and fruit characteristics, but smaller than Jack-B- Quik and Munchkin. Most fruit set close to the crown early and escape virus flecking. Our highest yielding Jack-B-Little type. The strain that growers prefer.
38525	Jack-B-Quik 🚺 🏷	95	3 x 2"	1/4	Orange		Medium	4	A more ribbed mini with taller and darker orange fruit.
38042	Orangita 🏷	80	5 x 3"	1 - 1 ½	Orange	HR	Semi Bush	4	Beautiful mini pumpkin featuring a disk shape with deep ribbing. Makes for an excellent display.
38043	Spark	90	3.5 x 2"	1/2	Deep Orange / Yellow Stripes	HR	Vine	4	Very uniform, striped ornamental variety with a dark green handle that is strongly attached to the fruit. Excellent for fall decorations.
38538	Wee-B-Little PVP 🌈 🏷	95	3 x 3"	1/2	Orange		Bush	3	An AAS winner that can be carved and provides ex- cellent plant health on a tight bush plant. A true mini pumpkin. Growing Tip: High levels of nitrogen causes excessive plant growth and low fruit set. If you force it into the survival mode with low nitrogen, plant size will be reduced and fruit numbers will multiply.
38078	WeeeeeOne Blend F1	95	3 x 3" - 1 ½ x 1 ½"	1/2	Orange	IR	Large Bush	3	A unique miniature pumpkin with shallow ribs. Vigorous bush with intermediate resistance to powdery mildew and very high yields. WeeeeeOne Blend approximate size ranges from 1 ½ x 1 ½" up to 3 x 3" fruit size. A must have in your miniature and gourd lineup.

PUMPKINS MINIATU	RE				M=1,0	00 seeds	PUMPKINS MINIATURE						M=1,0	000 seeds
Priced per package	100 seed	250 seed						Priced per package	100 seed	250 seed				
Price per 1,000 seeds (M)			1M	3M	25M	100M		Price per 1,000 seeds (M)			1M	3M	25M	100M
38066 Gold Dust		20.50	54.65	51.40	48.90	47.60		38042 Orangita FI400	23.55	43.55	116.10	112.85	110.35	109.05
38066 Gold Dust FI400		23.00	61.25	58.00	55.50	54.20		38043 Spark	20.75	38.40	102.35	99.10	96.60	95.30
38066U Gold Dust Untreated		20.50	54.65	51.40	48.90	47.60		38538 Wee-B-Little		13.00	34.60	31.35	28.85	27.55
38077 Gold Speck		25.55	68.05	64.80	62.30	61.00		38538 Wee-B-Little FI400		15.45	41.20	37.95	35.45	34.15
38077 Gold Speck FI400		28.00	74.65	71.40	68.90	67.60		385380 Wee-B-Little Untreated		13.00	34.60	31.35	28.85	27.55
38077U Gold Speck Untreated		25.55	68.05	64.80	62.30	61.00							74.05	70 55
38525 Jack-B-Quik		8.15	21.65	18.40	15.90	14.60		38078 FI400		29.10	77.60	74.35	71.85	70.55
38525 Jack-B-Quik FI400		10.65	28.30	25.05	22.55	21.25	:	WeeeeeOne Blend 38078U ^{Untreated}		26.65	70.95	67.70	65.20	63.90



38548 Batwing Mix

PUMPKINS MINIATURE

Priced per pound in these package sizes



1 oz.

4 07.

1#

17.30 51.25 157.60 154.60 152.60



M=1.000 seeds

25#

5#

GROW YOUR BEST PUMPKINS YET!

Our pumpkin guide features tips from product selection through planting and harvest. Visit our website to download it or request a printed copy.

www.ruppseeds.com/PumpkinGuide



R S T

BARRY'S PUMPKIN GROWING TIPS FOR SUCCESS

CROP ROTATION

I strongly recommend that growers NOT plant pumpkins in the same field in consecutive years and would suggest that waiting a minimum of three years between pumpkin crops would be best. If you have adequate acreage, I would even prefer that you wait 5 to 7 years before raising another pumpkin crop in that same field. This helps to reduce and possibly even prevent soil diseases and pest infestations. When possible, raising pumpkins after wheat is a great option. Rotating pumpkins in after corn and soybeans can increase the likelihood of higher rootworm populations and phytophthora, which will be detrimental to the crop.

PLANT SPACING

Correct plant spacing is very important and will vary by product. Planting a full vine variety too close can increase disease pressure. Diseases like powdery mildew or fruit rot can become more prevalent when the vine foliage does not have adequate space for air movement to aid in removing moisture in the plant canopy. Planting too closely will also affect fruit size and yield by holding too much heat in the field and restricting the ability for pollinators to do their job. It also impedes insecticide and fungicide effectiveness by restricting spray penetration.

PEST CONTROL

The biggest problem I hear about concerning insect and disease control is when growers are using the same product in repeated applications. Rotate your insecticide and fungicides based on their mode of action and NOT just brand name or active ingredient. Remember scouting is one of your best tools. For chemical recommendations, consult the Midwest Vegetable Production Guide <u>www.ruppseeds.com/</u> <u>MVPG</u>.

> **Barry Rupp** Sales Manager

POLLINATION

Pollinators can have a significant effect on pumpkin yield. I have heard it can take 14 - 17 visits by a pollinator (bees, etc.) in order for a flower to be fully pollinated. Scout your fields in the morning and if you don't see or hear bees, I recommend bringing in 1 hive of bees per acre.

VARIETY CHOICE

Make sure you know your target market before selecting which hybrids you want to grow. Most retail markets will accept a wide range of sizes, shapes and colors, where wholesale markets tend to have more specific requirements around bin count, size, shape, color and handle.

FIELD LOCATION

Vine crops typically perform better on well-drained sandy soils. The heavier the soils, the greater the importance of drainage. When a pumpkin is ripe, any rain that gets taken up by the plant is deposited into the seed cavity, which may lead to and even speed up the process of fruit rot.

BIOLOGICS

Beneficial bacteria in the soil, or added at planting time, will colonize on the roots and improve root and plant health which will help the plant handle stress (i.e. – drought or excessive water) later in the season.

PLANTING TIMING

This is a topic we discuss often as we continue to develop new varieties. If you are currently growing a late maturing variety and choose to also plant an early variety, DO NOT plant them on the same day. The early variety usually ripens way too early for your market and will likely rot before you harvest.

FERTILITY

Soil testing can't be emphasized enough. Know what is already in your soil, and what you need to add. For invaluable information on this, see the Midwest Vegetable Production Guide link listed under Pest Control.

















MELLOW YELLOW

P



MIDNIGHT



NAKED BEAR



NEW ENGLAND CHEDDAR



ONE TOO MANY



PHANTOMITA



PORCELAIN DOLL

PUMPK	INS	SPE	CIALTY					
tem #	▼ Variety	Days	Diameter Height	Weight pounds	Skin	Vine	Spacing Category	Features
38012	Blue Doll 🗉 🍉	100	12 x 10"	20 - 24	Blue	Very Large Vine	2	Features an exotic blue color and an almost square appearance with deep ribbing. Deep orange, sweet flesh that can be used for pies, soup, and gourmet delights. Great for stacking displays
38114	Fool's Gold 🗉 🕜 🏷	90	9 ½ x 9 ¼"	11 - 12	Tan	Large Vine	3	With its unique tan color, Fool's Gold will catch your customer's eye and it looks great when displayed in a mix with orange and white varieties. Intermediate resistance to powdery mildew.
38118	Fright 7 🏷	90	10 x 9 ½"	12	Orange with green warts	Medium	3	Add a frightening look to your fall display with this heavily-wart ed variety. The green warts pop out on this orange pumpkin, making it a favorite of our trial cooperators.
38093	Goose Bumps II 🗈 椮	95	8 X 8"	8 - 12	Orange	Medium	3	Goose Bumps with more fruit covered with warts.
38128	Grizzly Bear 🌢	95	6X8"	5 - 8	Light Brown	Medium	3	A small round warted pumpkin with light brown color and heavy warts that are hard and will not damage easily. Strong vines offer intermediate resistance to Powdery Mildew. A great addition to your fall display.
38048	HSC151	110	8 ½ x 11"	9 - 14	Medium Or- ange / Green Stripes	Medium	3	Totally hulless, the roasted seeds are delicious with a nutty texture. Compared to other hulless varieties, maturity is earlier and seed yield is exceptional.
38081	Indian Doll 🛙 椮	100	6x12"	20 - 24	Deep Orange	Vine	2	Indian Doll features a deep-orange color and an almost square appearance. Sweet flesh is great for pies, soup and gourmet culinary delights. Great for fall decorations.
42939	Jarrahdale	95	10"	7 - 8	Blue	Medium	2	Excellent quality flesh, beautiful looking fruit. Good to use for both food or ornamental use.
38044	Mellow Yellow 🏷	100	10 x 12"	12 - 15	Yellow	Vine	2	Slightly elevated profile. Medium ribbing. Intermediate tolerance to PM.
38089	Midnight Black Kat F1 👏	77		1-1 ½	Black	Semi Bush	4	Very dark green pumpkin having a classic shape with deep ridges. Intermediate tolerance to PM. Will start to turn orange after approximately 2 months of storage. PLANT NO EARLIER THAN JUNE 22.
38030	Naked Bear	105	5 x 6"	2 - 4	Light Orange	Medium	3	Large handled, naked seeded variety. High yielding product for either boxed pie pumpkin or edible seed pack markets.
42969	New England Cheddar Fi	112	8 ½ x 12"	15	Tan	Vine	2	Excellent for industrial, home processing like canning or pies, o other uses. It has a uniform rind color and deep orange flesh. It has superior dry matter and sugar content when compared with Long Island Cheese or Dickinson Field.
42961 🔸	🕻 One Too Many 🗈 🌈 🍅	110	14"	20	White Back- ground with Red Veins	Large Vine	2	A Rupp product with outstanding potential for decorative use, developed through cross species breeding work. Fruit are 75% round with about 25% oblong fruit.









SCARFACE



SMALL WORLD OF COLOR



SUNSHINE NEW

5.75

42939 Jarrahdale

16.95

52.10

49.10

47.10



THUMPKIN

PUMPKI	NS	SPE	CIALTY					
ltem #	▼ Variety	Days	Diameter Height	Weight pounds	Skin	Vine	Spacing Category	Features
38134 NEW	Phantomita 🏷	90	3 x 2"	1-1 ½	Multi-color	Semi Bush	4	A great addition to Casperita, Orangita, Midnight, and Sunshine pumpkins - especially with its light green and yellow striping. Fruit is disk-shaped and has deep ribbing.
38029	Porcelain Doll 🗈 🍅	110	12 x 10"	20 - 24	Pink	Very Large Vine	3	This eye-catching hybrid pink pumpkin with deep ribbing and almost square appearance, stacks well and is sure to be a winner for your market stand! When picking, wait for the stem to get fully corky for maximum pink potential.
42953	Red Warty Thing Essex Turban	110	14"	20	Bright Orange / Warted	Large Vine	2	A variety sourced from the U.S. Seed Bank with an appearance that is well suited as an unusual addition for the decorative market. Good eating, Hubbard type flesh, very hard, thick rind.
38533	Rouge Vif d'Etampes	105	15 x 6"	20	Reddish Orange	Vine	2	A flattened, deeply ridged fruit. Surprising beauty, great yield and flavor. Cinderella type used for stacking displays.
38127	Scarface F1	105	12 x 10"	12 - 16	Orange	Medium	3	Largest variety in the Super Freak series.
38084	Small World of Color 🍞	110	12 x 11"	25 - 30	Multi Color	Vine	1	A Rupp mix with round pumpkin shaped fruit in the maxima class that can be used in a new way of decorating. The blend contains Crystal Star that will keep its white color, not turning blue or yellow, plus a pink variety and a pink & blue variety.
38136 NEW	Sunshine 🏷	90	3 x 2"	1-1 ½	Yellow	Semi Bush	4	A great addition to Casperita, Orangita, Midnight, and Phan- tomita pumpkins. Sunshine features a very attractive yellow skin that holds its bright yellow color after harvest. Plants are very productive with a semi-bush habit.
38549	Thumpkin 🏷	120	14 x 8"	15 - 25	Dark Orange	Vine	1	Hard stemmed pumpkin with unique flattened fruit and a gigantic handle. Plant at 72 square feet per plant. Crowding results in fewer but larger pumpkins.

PUN	IPKINS SPECIALT	Ϋ́				M=1,0	000 seeds	Ρ	NUM	PKINS SPECIALT	Ϋ́				M=1,0	00 seeds
	Priced per package	100 Seed	250 Seed							Priced per package	100 Seed	250 Seed				
	Price per 1,000 seeds (M)			1M	3М	25M	100M			Price per 1,000 seeds (M)			1M	3М	25M	100M
38012	Blue Doll FI400	31.70	58.70	156.45	153.20	150.70	149.40	4	42961 (One Too Many	40.15	74.30	198.10	194.85	192.35	191.05
38114	Fool's Gold FI400	24.95	46.20	123.20	119.95	117.45	116.15	42	29610	One Too Many Untreated	40.15	74.30	198.10	194.85	192.35	191.05
38118	Fright FI400	28.00	51.85	138.25	135.00	132.50	131.20	4	42961 (One Too Many FI400	41.50	76.80	204.75	201.50	199.00	197.70
38093	Goose Bumps II FI400	28.05	51.90	138.30	135.05	132.55	131.25	3	38134 I	Phantomita FI400	25.00	46.25	123.30	120.05	117.55	116.25
38128	Grizzly Bear FI400	27.60	51.10	136.20	132.95	130.45	129.15	3	38029 I	Porcelain Doll FI400	39.10	72.35	192.90	189.65	187.15	185.85
38048	HSC151	15.15	28.05	74.70	71.45	68.95	67.65	4	42953 I	Red Warty Thing	13.45	24.90	66.35	63.10	60.60	59.30
38081	Indian Doll FI400	29.60	54.80	146.05	142.80	140.30	139.00	42	29530	Red Warty Thing Untreated	13.45	24.90	66.35	63.10	60.60	59.30
38044	Mellow Yellow FI400	27.60	51.10	136.20	132.95	130.45	129.15	4	42953 I	Red Warty Thing FI400	14.80	27.40	72.95	69.70	67.20	65.90
38089	Midnight Black KatF1400	22.85	42.25	112.60	109.35	106.85	105.55			Rouge Vif d'Etampes						
38030	Naked Bear	18.90	34.95	93.10	89.85	87.35	86.05	-	38533 F		19.55	36.15	96.40	93.15	90.65	89.35
	New England									Scarface FI400	28.05				132.55	131.25
42969	Cheddar	9.10	16.85	44.85	41.60	39.10	37.80	3	38084	Small World of Color	54.30	100.55	268.05	264.80	262.30	261.00
1206011	New England Cheddar ^{Untreated}	9.10	16.85	44.85	41.60	39.10	37.80	3	38136	Sunshine FI400	25.50	47.20	125.85	122.60	120.10	118.80
429090		9.10	10.00	44.05	41.00	39.10	37.60	3	38549	Thumpkin F1400	18.90	35.00	93.30	90.05	87.55	86.25
42969	New England Cheddar ^{F1400}	10.45	19.35	51.50	48.25	45.75	44.45			Priced per package	1 oz.	4 oz.				
										Priced per pound			1#	5#	25#	Seeds /lb.

2,800



CASPERITA



SNOWBALL



ICICLE



BLANCO



COTTON CANDY



WHITE GOLD







FLAT WHITE BOER FORD



FLAT STACKER



CRYSTAL STAR



FULL MOON



POLAR BEAR

PUMPKINS		WH	ITE						
ltem #	Variety	Days	Diameter Height	▼ Weight pounds	Skin	Powdery Mildew	Vine	Spacing Category	Features
38532	Baby Boo PVP	100	3 x 2"	1/4	White		Vine	4	A white Jack-B-Quik type variety. Should be planted later than Jack-B-Quik types because it will turn a pale yellow a full maturity.
38032	Casperita 🕫 🏷	77	3 x 2"	1⁄2 - 1	White	IR	Semi Bush	4	Stunning personal sized hybrid with good yield. Classic shape that can be used for both ornamental and edible purposes. Ideal size for restaurant use.
38004	Snowball F1 🏷	90	6 x 6"	1-2	White	IR	Vine	4	Very high yielding variety with attractive smooth round fruit. Bright white coloration with a dark green stem. Has the ability to hold white color under stress.
38122	lcicle FI 🐡	105	5 x 4"	2	White	HR	Medium	4	Icicle is the perfect pie size pumpkin with a nice white col or and a strong handle. It grows on a restricted vine. Pairs well with Touch of Autumn. The right size for boxing.
38033	Blanco FI 🔶	100	8 x 6"	4 - 6	White		Medium	4	Flattened shape, medium rib and long handle. Has show moderate resistance to color change due to sun or light frost. Great alternative for growers who require a consiste high quality white pumpkin. The stay white gene extends the harvest window.
38065	Cotton Candy F	110	9 x 8"	5 - 12	White		Vine	3	A pumpkin with good handles, a blend of strains that range between 5 and 12 lbs. Harvest and store in the dar to maintain white color. Excellent for painting. Flesh color is white. Despite its name, this is not good for eating.
38119 7	White Gold 🕫 🌢	90	7 ½ x 8 ¾"	8	White		Medium	3	A new generation of white pumpkin with uniform, slight ribbed fruit and a well attached black handle.
38016	Casper	90	8 x 10"	10 - 20	White		Medium	3	A smooth, bright white-skinned pumpkin for painting.
38100	Abominable 🌔	110	9 x 9"	12 - 15	White	Т	Vine	2	A round white pumpkin with a strong handle. Has good color retention and a full vine.
38510	Flat White Boer Ford 椮	115	10 x 4"	15 - 17	White		Large	2	A flat pumpkin with a creamy white rind and thick orange flesh. Vigorous vines provide good cover for the fruit. It is both tasty and great for fall decoration. Stacks well.
38041	Flat Stacker 🏷	90 - 95		15 - 20	White		Semi Bush	4	Extremely oblate shape with deep ribbing. Great for stacking. Good disease resistance.
38086 7	Crystal Star 🌈 🏷	100	12 x 11"	25 - 35	White		Medium	2	Maintains its true white color, not turning blue or yellow maturity, and be a pumpkin shape.
38547	Full Moon PVP	115	20x28"	25 - 75	White		Large	2	A large white display pumpkin from Hollar. Harvest when white and store in the shade to maintain white color.
38129	Polar Bear 🐌	100	14x18"	30 - 65	White		Large	2	Retains its color after maturity in the field, at market, and in decorative displays. Long, vigorous vines produce fruit weighing 30–65 lb, but may exceed 100 lb.

RADISI	н			
ltem #	▼ Variety	Days	Shape	Features
39003	Champion	21	Globe	Bright red, globe-shaped, very firm. Slow to pith.
39105	Crunchy King F1	24	Globe	Holds round shape and does well all season. Strongest in Fall and Spring slots. Bright white interior with attrac- tive dark red skin. Has very high recovery and is slow to pith.
39001	Easter Egg II	28	Globe	Multi-line mix for the home garden. Red, pink, purple, violet and white radishes; good flavor.
39007	French Breakfast	24	Oblong	Skin is rose scarlet with a white tip. Flesh is white, tender and coarser than most varieties.
39102	Pearl F1	25	Globe	White round radish with a small green neck for open field production. Very vigorous growth and good resistance to cracking. Nice mix with reds.
39106	Regal Red F1	24	Globe	A fast-maturing summer radish that produces uniform, round bulbs.

RADISH	ł	WIN	TER / ORIENTAL
item #	▼ Variety	Days	Features
39701	April Cross F1 Daikon Japanese Type	60	Extra slow bolting. Plant in early spring. Up to 15" long and 2 lbs.

SPINA	СН	Hybrid	
ltem #	▼ Variety	Days	Features
41002	Kona 🏷	35	Kona is a mid-late, semi-savoy variety that is well suited for late spring/early summer or autumn production. It produces a dark green leaf with excellent thickness and pliability providing increased yield potential. High resistance to downy mildew.
41001	Olympia 🏷	45	A fast growing and long standing smooth leaf hybrid for early spring or late summer sowing. Tolerant to downy mildew.
41003	SV2146VB	60	SV2146VB is a good option for growers looking for a semi-savoy variety with high yield potential, good quality, and excep- tional pliability. It features rich, dark leaves that are great for bunching.

PUN	IPKINS WHITE					M=1,0	00 seeds
	Priced per package	100 seed	250 seed				
	Price per 1,000 seeds (M)			1M	3M	25M	100M
38100	Abominable FI400		43.55	116.05	112.80	110.30	109.00
38033	Blanco FI400		41.80	111.35	108.10	105.60	104.30
38032	Casperita FI400	26.70	49.40	131.65	128.40	125.90	124.60
38065	Cotton Candy		18.90	50.35	47.10	44.60	43.30
38065	Cotton Candy FI400		21.40	56.95	53.70	51.20	49.90
38065U	Cotton Candy Untreated		18.90	50.35	47.10	44.60	43.30
38086	Crystal Star FI400	49.10	90.90	242.35	239.10	236.60	235.30
38086U	Crystal Star Untreated	47.75	88.40	235.70	232.45	229.95	228.65
38510	Flat White Boer Ford FI400		23.95	63.75	60.50	58.00	56.70
38041	Flat Stacker FI400	21.10	39.05	104.10	100.85	98.35	97.05
38547	Full Moon	40.15	74.30	198.10	194.85	192.35	191.05
38122	Icicle FI400		39.30	104.70	101.45	98.95	97.65
38129	Polar Bear FI400	34.85	64.45	171.75	168.50	166.00	164.70
38004	Snowball FI400		51.10	136.20	132.95	130.45	129.15
38119	White Gold FI400	26.95	49.90	132.95	129.70	127.20	125.90
	Priced per package		1 oz.	4 oz.			
	Priced per pound in these package sizes				1#	5#	25#
38532	Baby Boo		17.25	51.10	157.20	154.20	152.20
38016	Casper		8.05	23.85	73.25	70.25	

RADISH				M=1,	000 seeds
	Priced per package	4 oz.			
	Priced per pound in these package sizes		1#	5#	25#
39003U Cham	pion ^{Untreated}	5.75	13.65	13.40	13.15
39001 Easter	Egg II	10.50	24.95	24.70	24.45
39007U French	Breakfast Untreated	6.20	14.70	14.45	14.20
	Priced per 1,000 seeds in these package sizes	10M	50M	250M	1000M
39105 Crunc	hy King	1.84	1.74	1.69	1.64
39102 Pearl		3.09	2.99	2.94	2.89
39106 Regal	Red	1.72	1.62	1.57	1.52

RADISH WINTER/ORIENTAL		M=1,0	000 seeds
Price per 1,000 seeds (M)	1M	5M	25M
39701 April Cross	14.55	12.75	11.55

SPINACH Hybrid			M=1	,000 seeds
Price per 1,000 seeds (M)	5M	25M	250M	1,000M
41002 Kona F300	0.62	0.54	0.49	0.46
41001 Olympia F300	0.61	0.53	0.48	0.45
41003 SV2146VB	0.62	0.54	0.49	0.46





SPINELESS PERFECTION 🗡 pg.95

SQUASH (Summer)

PLANTING

Direct seed into field. Plant $\frac{1}{2}$ " - $\frac{3}{4}$ " deep. Row spacing should range from 36" - 60" apart. In row spacing ranges from 18" - 24".

See "Germination Chart" on page 125 for additional information on germination rate and days to germination at various soil temperatures.

MANAGEMENT

Scout fields every 7 days. Inspect for weeds, insect, and disease infestation.

HARVEST

Harvest every other day. Fruit should be 7 - 8" in length and 1 - $2\frac{1}{2}$ " in diameter. Another way to determine harvestablity is to harvest when blossom has wilted.

STORAGE

Store at 40 - 50°F and at 95% humidity.

DISEASE CODES

CMV - Cucumber Mosaic Virus DM - Downy Mildew PM - Powdery Mildew PRV - Papaya Ringspot Virus WMV - Watermelon Mosaic Virus ZYMV - Zucchini Yellows Mosaic Virus

HERBICIDE CAUTION

Some pre-emergence herbicides can and will cause distortions in squash and pumpkins, especially the species with the corky stems. It also has been noticed in hardstem varieties. These distortions may show up in both color or shape.

ALL-STARS 🔶 SUMMER SQUASH

GREEN

Green Machine has picked up steam with growers over the past few years. Its traditional zucchini look has helped growers improve yield and quality without using old and worn out varieties.

> For those that love oldies but goodies, **Spineless Beauty** is for you. The glossy, medium-green fruit is still one of the prettiest looking zucchini hybrids on the market today.

Spineless Perfection is quickly gaining traction with commercial growers. It demonstrates a similar style of classy fruit exterior as its forerunner, Spineless Beauty. It is simple to harvest due to an open plant habit and "easy pick" trait. Spineless Perfection also has an enhanced disease platform when compared to Spineless Beauty.

Pete Dinius Product Development















SPINELESS BEAUTY PERFECTION



STARSHIP

Order ONLINE (a)ruppseeds.com

SQUA	٩SH	SH SUMMER GREEN Hybrid						Pricing on page 96		
ltem #		▼ Variety	Days	Harvest Length	Color	Туре	Fruit Shape	Disease	Features	
42092		Basima	40	4"	Pale Green	Lebanese	Tapered	WMV, ZYMV	51	bit with semi-erect stem and open habit. Perfect for stuffing.
42096		Dunja 🐌	45	7 - 8"	Dark Green	Zucchini	Cylindrical	PM, WMV, ZYMV	5, 5	variety with a compact and open plant for Glossy fruit also exudes fine flecking for ne exterior.
42009	\star	Green Machine 🏷	45	7 - 8"	Medium Dark Green	Zucchini	Cylindrical	CMV, PM, WMV, ZYMV		le, high yielding variety. Has a strong t with an excellent disease package.
42088		Paycheck 椮	42	7 - 8"	Medium Green	Zucchini	Cylindrical	CMV, PM, WMV, ZYMV		it has shown good adaptability and uality. Works well in cooler conditions.
42027	*	Spineless Beauty 🏷	50	7 ½ - 8 ½"	Medium Green	Zucchini	Cylindrical			owers due to lack of petiole spines, open e yields, classy cylindrical fruit, and ng ability.
42094	*	Spineless Perfection 🕏	44	7 - 8"	Medium Green	Zucchini	Cylindrical	PM, WMV, ZYMV	onto a rich looki characteristic m	ety that integrates more refined flecking ng glossy fruit. Contains the "easy pick" eaning the fruit are easily twisted from g the peduncle and fruit still intact.
42135		Starship 🍉	45	2 x 3 - 4"	Medium Dark Green	Scallop	Dish		shape and gloss	squash that consistently maintains its y dark green color through multiple t rounding. A vigorous bush plant.

ALL-STARS 🔶 SUMMER SQUASH

YELLOW

Blonde Beauty has proven itself over the last few years with growers. Growers have commented that it has a very smooth, and productive, plant with a classic shape.

Our second best selling yellow summer squash is **Grandprize**. Having solid performance over the past several years has earned its spot as a grower preferred. It has one of the best disease packages for summer squash and it will yield.

> **Pete Dinius** Product Development



SQUASH SUMM	ER GI	REEN	Hybrid			M=1,0	000 seeds
Price per package	100 seed	250 seed					
Price per 1,000 seeds (M)			1M	3M	25M	50M	55M
42092 Basima	12.40	20.60	58.85	51.15	49.40		48.40
42096 Dunja FI400	20.05	33.35	95.20	82.75	81.00	80.00	
Green					-		
42009 Machine FI400	19.90	33.10	94.45	82.10	80.35		79.35
42088 Paycheck FI400	24.95	41.55	118.65	103.15	101.40		100.40
Spineless							
42027 Beauty FI400	16.05	26.75	76.40	66.40	64.65		63.65
Spineless							
42094 Perfection FI400	19.45	32.40	92.55	80.45	78.70		77.70
42135 Starship FI400	9.00	15.00	42.75	37.15	35.40		34.40

SQUASH SUMMER YE	LLOW	/ Hybric	k		M=1,00	0 seeds
Price per package	100 seed	250 seed				
Price per 1,000 seeds (M)			1M	5M	25M	80M
42018 Blonde Beauty FI400	14.10	23.45	66.95	58.20	56.45	55.45
42081 Gentry FI400	10.00	16.65	47.45	41.25	39.50	38.50
42049 Grandprize FI400	19.70	32.80	93.70	81.45	79.70	78.70
42098 Smooth Wonder FI400	15.70	26.10	74.45	64.70	62.95	61.95
42010 Sunburst FI400	15.90	26.50	75.65	65.75	64.00	63.00
Price per package	100 Seeds	250 Seeds				
Price per 1,000 seeds (M)			1M	3M	25M	55M
42133 Golden Glory FI400	19.20	32.00	91.30	79.35	77.60	76.60
42080 One Ball	16.35	27.20	77.60	67.45	65.70	64.70

SQUASH SUMMER OP			
Priced per package	4 oz.		
Priced per pound in these package sizes		1#	5#
421120 Dark Green Zucchini Untreated	10.05	26.50	26.25
42107U Golden Zucchini Untreated	11.20	29.65	29.40





GOLDEN GLORY



GRANDPRIZE







SMOOTH WONDER



SUNBURST

SQUA	٨SH		SUN	/MER `	YELLO	W Hybrid			
ltem #		▼ Variety	Days	Harvest Length	Color	Туре	Fruit Shape	Disease	Features
42018	*	Blonde Beauty 🌈 🏷	40	5 - 7"	Glossy Yellow	Straightneck	Tapered		Spineless petioles provide less painful picking on this hybrid from the Slickpik series. Standard commercial shape with an open plant makes a desirable package all around!
42081		Gentry 🍉	43	1 ¾ X 6"	Yellow	Semi-Crookneck	Crook	PM, CMV	Vigorous and consistently produces outstanding yields of butter yellow, smooth-skinned fruit. Outstanding smoothness even under stress helps ensure marketability of fruit
42133		Golden Glory 🏷	50	7 - 8"	Golden Yellow	Gold Zucchini	Cylindrical	PM, WMV, ZYMV	Produces high quality uniform fruit on an open, upright and vigorous plant.
42049	\star	Grandprize 🏷	42	6 - 7"	Yellow	Straightneck	Cylindrical	PM, WMV, ZYMV	Offers improved fruit coloring, great plant vigor, and solid yield potential. Solid outer texture to withstand harvest. Increased virus resistance over Goldprize.
42080		One Ball	38	3 x 3"	Gold	Gold Zucchini	Round		Fruit set at every node and grow very rapidly after flowering. Has occasional green fruit.
42098	NEW	Smooth Wonder 🏷	45	5 - 7"	Yellow	Straightneck	Tapered	DM, PM	Very strong yield potential on near spineless plants. Smooth Wonder performs best in sandier well drained soils, and has a strong tolerance to powdery mildew and downey mildew.
42010		Sunburst 🌘	50	2 ½ x 3"	Bright Yellow	Scallop	Dish		AAS winner. Attractive, colorful fruit. Best when young.

SQUAS	бн	SUN	SUMMER OP								
Item #	ltem # ▼ Variety		Harvest Length	Color Type		Fruit Shape	Features				
42112	Dark Green Zucchini	62	6 - 7"	Medium Dark Green	Zucchini	Cylindrical	Popular, medium dark green variety.				
42107	Golden Zucchini	55	6 - 7"	Golden	Golden Zucchini	Cylindrical	Has crisp flesh on golden skinned fruit. A good choice for the home gardener.				



SQUASH (Winter)

PLANTING

Plant seeds $\frac{1}{2}$ " - $\frac{3}{4}$ " deep. Plant spacing varies depending on vine type. Bush type plants should be planted closer and vine types should be planted farther apart. Squash need to have approximately 25 - 30 sq. ft. See the Winter Squash Planting / Harvest Timing chart on page 100 for additional information.

See "Germination Chart" on page 125 for additional information on germination rate and days to germination at various soil temperatures.

MANAGEMENT

Scout every 7 days for insect, weed, and disease pressure. Fruit will tend to decrease in size the farther south a crop is planted and increase in size the farther north it is planted. Size is relative to day length.

HARVEST

Cut off the vine to keep peduncle. Wash in 5% chlorine solution and pat dry. Let cure for 10 days. Keep fruit dry to prevent spoilage. Allow air to circulate around fruit.

STORAGE

Store at 45 - 55°F and humidity level of 50 - 60%. Keep fruit dry and allow air to circulate around fruit.

PLANT SPACING

Each variety or type of squash has an optimum plant spacing for its best performance. If plants are too close, stress and competition can decrease fruit size and possibly even reduce the number of female flowers. Under extreme stress, tight spacing may eliminate the crop entirely.

- Accurate plant spacing will be an equal opportunity environment for every plant.
- Suggested populations are for final plant stands.
- To achieve ideal plant populations it is necessary to either overplant and hand thin or to plant according to recommendations and hand plant later to fill skips.
- Seed corn maggots, wire worms, mice and birds, floods or lack of rain are all common problems that effect accurate stand establishment.

PLANT SPA	5' 3' 2,904 5' 4' 2,178					
		Between				
Compact Bush	5′	2'	4,356			
Bush	5′	3'	2,904			
Semi Bush	5′	4'	2,178			
Restricted Vine	5′	4'	2,178			
Vine	5′	5'	1,742			





AUTUMN PERFECTION



CELEBRATION









HARLEQUIN



HEART OF GOLD

SQU	ASH	WIN	WINTER ACORN									
ltem #	▼ Variety	Days	Fruit Size	Weight pounds	Color	Habit	Features					
42311	🔶 Autumn Delight 🛙 💔 🏷	80	6 x 5"	1 ½	Dark Green	Semi Bush	A popular, powdery mildew tolerant acorn hybrid. Fruit are large with excellent quality.					
42308	Autumn Perfection Fi	80	6 ½ x 5 ½"	2 - 2 ¼	Dark Green	Bush	Produces higher yields and slightly larger fruit with improved taste when compared to Autumn Delight. It will size down for the southern grower. High resistance to powdery mildew.					
42955	🛨 Celebration 🛙 伊 🏷	80	4 x 5"	1 1⁄2	Light Yellow / Orange Sutures	Compact Bush	A powdery mildew tolerant, gold striped acorn hybrid with exception- al eating quality. Is also decorative. A sure winner.					
42304	Cream of the Crop F1	85	6 x 5"	1 ½ - 2	Cream	Compact Bush	AAS winner. Unique creamy white fruit. Uniform size.					
42952	Harlequin 🛙 🍞	80	4 x 5"	1 ½ - 2	Light Green / Dark Green Sutures	Compact Bush	A powdery mildew tolerant, green striped acorn hybrid from Rupp. Has exceptional eating and decorative qualities. A sure winner.					
42930	Heart of Gold 🗉 ᡝ 🏷	80	4 x 5"	3	Cream / Green Stripes	Semi Bush	A winter squash striped like Sweet Dumpling, heart shaped, with fine sweet flesh. Yields have been 35% higher than Sweet Dumpling.					
42302	Mashed Potato	100	6 x 5"	1 - 1 ½	White	Compact Vine	White acorn with fantastic color holding ability. Flesh is nearly white and resembles mashed potatoes when baked and fluffed. 3 to 4 fruit per plant.					
42301	Table Ace 🖻 🂔 🌢	80	6 x 5"	1 ½	Dark Green	Semi Bush	A popular, dark black-green, acorn squash with rounded ribs and blunted blossom ends. It has solid, tasty flesh with almost no fibers or stringiness.					
42310	Table Star 🛙 🌈 🌢	80	6 x 5"	2	Jet Black with a golden star around stem	Bush	LIMITED SUPPLY A top selling acorn squash due to its eating quality and powdery mildew tolerance. It is competitive with the best in the market, plus has 50% higher sugars than other acorns.					
42309	Table Treat 🕅 🕐	70	5 ½ x 5"	1 ½ - 1 ¾	Jet Black	Bush	A powdery mildew tolerant acorn hybrid from Rupp that is slightly smaller than Table Star, plus has 50% higher sugars than the compa- rable acorns. Very good eating quality.					
42307	Taybelle PM F1 🐡	80	6 x 5"	2	Jet Black	Bush	A direct conversion from Taybelle to include intermediate resistance to powdery mildew. Sweet flavor and good storage quality.					

SQUASH WINTER ACO	RN				M=1,00	0 seeds
Priced per package	1 oz.	4 oz.				
Priced per pound in these package sizes			1#	5#	20#	Seeds /lb.
42309 Table Treat	11.00	34.50	94.80	93.80	92.30	4,600
Priced per package	250 Seeds					
Price per 1,000 seeds (M)		1M	3M	25M	55M	Seeds /lb.
42311 Autumn Delight	21.75	57.95	54.95	52.95	51.95	4,300
42311 Autumn Delight FI400	23.00	61.25	58.25	56.25	55.25	4,300
42311U Autumn Delight Untreated	21.75	57.95	54.95	52.95	51.95	
42308 Autumn Perfection FI400	22.85	60.90	57.90	55.90	54.90	
42955 Celebration	14.45	38.45	35.45	33.45	32.45	4,800
42955 Celebration FI400	15.70	41.80	38.80	36.80	35.80	4,800
42304 Cream of the Crop	15.20	40.50	37.50	35.50	34.50	4,000
42304 Cream of the Crop FI400	16.45	43.80	40.80	38.80	37.80	4,000

SQUASH WINTER ACC	RN	M=1,000 seeds						
Priced per package	250 Seeds							
Price per 1,000 seeds (M)		1M	ЗМ	25M	55M	Seeds /lb.		
42952 Harlequin	13.75	36.65	33.65	31.65	30.65	4,400		
42930 Heart of Gold	15.55	41.45	38.45	36.45	35.45	4,900		
42930 Heart of Gold FI400	16.80	44.75	41.75	39.75	38.75	4,900		
42302 Mashed Potato	17.45	46.45	43.45	41.45	40.45	5,900		
42301 Table Ace	17.20	45.75	42.75	40.75	39.75	4,400		
42301 Table Ace FI400	18.40	49.05	46.05	44.05	43.05	4,400		
42301U Table Ace Untreated	17.20	45.75	42.75	40.75	39.75	4,400		
42310 Table Star	13.15	34.95	31.95	29.95	28.95	3,900		
42310 Table Star F1400	14.35	38.25	35.25	33.25	32.25	3,900		
42307 Taybelle PM F1400	17.95	47.85	44.85	42.85	41.85	4,300		

WINTER SQUASH PLANTING/HARVESTING TIMING CHART

Winter squash growers who are planting multiple varieties need to consider multiple planting dates so that they can harvest their crop at its peak. The planting date plus the maturity of the variety should equal the potential harvest date. Keep in mind that higher or lower than average heat and sunlight may also impact the development of the crop by decreasing or increasing its maturity.

Use the following chart to align your squash variety maturity with your desired harvest date to schedule planting.

Variety	Planting Date: May 1	Planting Date: May 15	Planting Date: June 1	Planting Date: June 15	Planting Date: July 1
Maturity	Harvest Range	Harvest Range	Harvest Range	Harvest Range	Harvest Range
70	July 1 - July 20	July 14 - Aug. 3	Aug. 1 - Aug. 20	Aug. 14 - Sept. 3	Aug. 31 - Sept. 19
75	July 5 - July 25	July 19 - Aug. 8	Aug. 5 - Aug. 25	Aug. 19 - Sept. 8	Sept. 4 - Sept. 24
80	July 10 - July 30	July 24 - Aug. 13	Aug. 10 - Aug. 30	Aug. 24 - Sept. 13	Sept. 9 - Sept. 29
85	July 15 - Aug. 4	July 29 - Aug. 18	Aug. 15 - Sept. 4	Aug. 29 - Sept. 18	Sept. 14 - Oct. 4
90	July 20 - Aug. 9	Aug. 3 - Aug. 23	Aug. 20 - Sept. 9	Sept. 3 - Sept. 23	Sept. 19 - Oct. 9
95	July 25 - Aug. 14	Aug. 8 - Aug. 28	Aug. 25 - Sept. 14	Sept. 8 - Sept. 28	Sept. 24 - Oct. 14
100	July 30 - Aug. 19	Aug. 13 - Sept. 2	Aug. 30 - Sept. 19	Sept. 13 - Oct. 3	Sept. 29 - Oct. 19
105	Aug. 4 - Aug. 24	Aug. 18 - Sept. 7	Sept. 4 - Sept. 24	Sept. 18 - Oct. 8	Oct. 4 - Oct. 24
110	Aug. 9 - Aug. 29	Aug. 23 - Sept. 12	Sept. 9 - Sept. 29	Sept. 23 - Oct. 13	Oct. 9 - Oct. 29
115	Aug. 14 - Sept. 3	Aug. 28 - Sept. 17	Sept. 14 - Oct. 4	Sept. 28 - Oct. 18	Oct. 14 - Nov. 3
120	Aug. 19 - Sept. 8	Sept. 2 - Sept. 22	Sept. 19 - Oct. 9	Oct. 3 - Oct. 23	Oct. 19 - Nov. 8

Squash quality will be the best when harvested nearest to the variety's actual maturity.

First, select the maturity of the variety you are using, then pick the date you would like your squash to look the freshest. The required planting date will be at the top of the column.

GROWER PREFERRED ALL-STARS

These winter squash All-Stars continue to bring growers consistent, predictable performance.

ACORN

With great dark color, good storage abilities and zero to very little ground spot, **Autumn Delight** is a sure winner for both fresh market and shipper growers.

Celebration is a must have for your autumn displays. Color, color, color!

BUTTERCUP

For that classic look, **Autumn Cup** is your choice. It is a great compliment to Thunder for seasonal markets.

For your short term storage needs **Space Station** is out of this world for quality and yield.

What can we say about **Thunder** but yield, yield, yield! Sure to put plusses in your income column.

Barry Rupp Sales Manager

WINTER SQUASH

BUTTERNUT

Betternut 900 has quickly become the standard in the boxing trade. It also carries other qualities such as taste, sweetness, vitamins, and minerals for today's nutritional needs.

Ultra will give you a large yield with huge fruit that work whether you're a processor or fresh market grower.

SWEET DUMPLING

Sweet Lightning is a great choice when you want great looking fall decorations. When it's cooked it provides the consumer with one of the sweetest eating squash on the market today. A great "dual-purpose" variety.

HUBBARD

When you want to attract customers to your market, **Blue Hubbard New England** is the one. It exudes great looks, an attractive interior and distinctive hubbard flavor.

SPAGHETTI

If it's spaghetti squash you're looking for, then **Primavera** is the variety to pick. Uniformity, yield, and great color make this a grower favorite.

OTHER

Rupp's Turk's Turban has great fall colors on a large orange squash. Customers will be asking for this beauty by name so have lots available.







() Rupp



TABLE STAR



TABLE TREAT









SUN SPOT



SUNSHINE



SWEET MAMA



THUNDER

SQUA	ASH	WINTER BUTTERCUP / KABOCHA								
ltem #	▼ Variety	Days	Fruit Size	Weight pounds	Color	Habit	Features			
42935	🛨 Autumn Cup 🕫 伊 🏷	95	6"	4 1/2	Dark Green	Semi Bush	The first hybrid, semi bush buttercup squash. Dark green, very high quality flesh and high yields. Has a reduced button when compared to Burgess and is slightly more oval.			
42904	Buttercup Burgess	110	8 - 9 x 5"	3	Dark Green	Vine	Flesh is dry and sweet, good for storage, fresh market or garden.			
42962	🛨 Space Station 🗉 🕜 🏷	90	7 x 4"	3 1⁄2	Black Green	Semi Bush	A semi bush kabocha hybrid with excellent flesh color and quality. Flesh is very sweet and dry. An upgrade to the long used Sweet Mama.			
42966	Sun Spot 🗉 🌈 🏷	75	6 x 4"	1 ½	Dark Red	Vine	A dark red buttercup hybrid with excellent dry flesh and fruit size that is desirable for today's small household. Early, dark orange, tasty flesh.			
42902	Sunshine F1	95	7 x 5"	3 - 5	Bright Orange	Vine	Tender flesh is smooth, sweet, and bright orange for baking, mashing, and pies. Appearance and eating quality are superior to other varieties of this type. Average 3 - 4 fruit per plant.			
42905	Sweet Mama FI 🏷	85	8 - 9 x 5"	4	Dark Green	Semi Bush	AAS winner. A kabocha with sweet flavor that stores well.			
42968	★ Thunder ^{F1} 𝔥	85	7 x 4"	3 1⁄2	Black Green	Vine	A buttercup kabecha hybrid that is an excellent yielder with dry sweet flesh.			

SQUASH WINTER BU	A	M=1,000 seeds			
Priced per package	1 oz.	4 oz.			
Priced per pound in these package sizes			1#	5#	20#
42904 Buttercup Burgess	5.25	16.75	45.65	44.65	43.15
42905 Sweet Mama FI400	31.75	103.00	283.65	282.65	281.15

SQUASH WINTER BU	SQUASH WINTER BUTTERCUP / KABOCHA											
Priced per package	250 Seeds											
Price per 1,000 seeds (M)		1M	3M	25M	55M							
42935 Autumn Cup	30.40	80.95	77.95	75.95	74.95							
42935 Autumn Cup FI400	31.60	84.25	81.25	79.25	78.25							
42962 Space Station	39.05	104.05	101.05	99.05	98.05							
42962 Space Station FI400	40.30	107.35	104.35	102.35	101.35							
429620 Space Station Untreated	39.05	104.05	101.05	99.05	98.05							
42966 Sun Spot	28.00	74.55	71.55	69.55	68.55							
42966 Sun Spot FI400	29.20	77.85	74.85	72.85	71.85							
42902 Sunshine	26.20	69.80	66.80	64.80	63.80							
42968 Thunder	31.65	84.30	81.30	79.30	78.30							
42968 Thunder FI400	32.85	87.60	84.60	82.60	81.60							





BETTERNUT 401



BETTERNUT 900



BETTERNUT 1744



BUTTERBABY



HONEYNUT

SQUAS	бн	WIN	TER BU	TTERNU	JT		
ltem #	▼ Variety	Days	Fruit Size	Weight pounds	Color	Habit	Features
42613	Avalon 🗈 🏷	88	11"	4 - 5	Buff	Vine	This Hollar Seeds butternut is a good packing and high yielding variety.
42606	Betternut 23 🗉 🌈 🏷	105	12 - 15"	6 - 8	Buff	Vine	Powdery mildew tolerant. Very uniform variety with proportional neck to bulb ratio. Exceptional flesh and skin color. High percentage of dry matter and sugar content.
42614	Betternut 401 🕫 🌈 🏷	80	8 - 9"	2 ¾	Light Tan	Semi Bush	A hybrid with good flesh color and uniformity on a semi bush plant. Powdery mildew tolerant.
42622 ブ	🔶 Betternut 900 FI 🌈 🏷	80	8 - 9"	3	Light Tan	Semi Bush	Overall best variety in the Betternut series for boxing. Powdery mildew tolerant.
42976	Betternut 1744 🗉 🌈 🏷	80	8 - 9"	3 ¼	Light Tan	Semi Bush	Slightly larger than Betternut 900 for farm markets and roadside stands. Provides powdery mildew tolerance.
42607	Butterbaby 🏷	100 - 105	5 - 6"	½ - 1	Buff	Semi Bush	High eating quality variety that is perfect size for CSA box growers and person- al-sized market. Very nice color and shape while maturing earlier than Honeynut. Longer storage ability than Honeynut.
42702	Honeynut	105 - 110	4 - 5"	½ - 1	Dark Tan	Restricted Vine	Produces single-serving squash with very sweet and delicious flavor. Very high yielding.
42615 ブ	🕂 Ultra 🕫 🏷	90	15"	10	Light Tan	Vine	A high yielding large butternut for both processors and market gardeners.

SQUASH WINTER BU	SQUASH WINTER BUTTERNUT							
Priced per package	250 Seeds							
Price per 1,000 seeds (M)		1M	3М	25M	100M	Seeds /lb.		
42613 Avalon FI400	25.85	68.85	65.85	63.85	62.85	5,000		
42606 Betternut 23	17.10	45.50	42.50	40.50	39.50	5,000		
42606 Betternut 23 FI400	18.30	48.80	45.80	43.80	42.80	5,000		
42614 Betternut 401	16.25	43.25	40.25	38.25	37.25	6,000		
42614 Betternut 401 FI400	17.50	46.55	43.55	41.55	40.55	6,000		
42622 Betternut 900	18.95	50.50	47.50	45.50	44.50	4,600		
42622 Betternut 900 FI400	20.20	53.80	50.80	48.80	47.80	4,600		
42622U Betternut 900 Untreated	18.95	50.50	47.50	45.50	44.50	4,600		
42976 Betternut 1744	16.30	43.45	40.45	38.45	37.45	5,000		
42976 Betternut 1744 FI400	17.55	46.75	43.75	41.75	40.75	5,000		
42607 Butterbaby FI400	17.05	45.35	42.35	40.35	39.35	5,800		
42702 Honeynut	13.50	35.95	32.95	30.95	29.95			
42615 Ultra FI400	25.40	67.65	64.65	62.65	61.65	4,500		







FESTIVAL









SWEET LIGHTNING 🗡 UGLY DUMPLING 🗸

SQU	SQUASH			ITER	DELICA	ELICATA / SWEET DUMPLING				
ltem #		▼ Variety	Days	Fruit Size	Weight pounds	Color	Habit	Features		
42957		Bush Delicata 🕜 🏷	105	5 - 6"	2	White / Green Stripes	Bush	An AAS winner bred by Cornell and marketed by Rupp. A typical delicata fruit on a bush plant with strong tolerance to powdery mildew.		
42945		Festival ^{F1}	100	4 - 5"	1 ½ - 2	Yellow Green Orange	Vine	A Carnival type squash with fewer oversized fruit, similar color and flesh quality. Fruit shape is between an acorn and Sweet Dumpling. Highly ornamental with great eating quality.		
42933		Jester ^{F1}	95	5 - 7"	1 ½	lvory / green inter-rib stripes	Short Vines	Superb flavor with eye-catching fruit. Oval and tapered at both ends, with small to average ribs. Among the best in eating quality. About 60 days storage time.		
42911		Sweet Dumpling 🏷	100	4"	1	Cream Striped	Vine	Colorful, acorn shape, sweet flesh. Stores 3 - 4 months.		
42501	*	Sweet Lightning F1	100	3 x 5"	1 - 1 ¼	Pale Yellow / Orange Stripes	Semi Bush	A Rupp product with both outstanding decorative and eating qualities. Is one of the best flavored when used as a squash. Has powdery mildew tolerance on a semi-bush vine.		
42934		Ugly Dumpling 🗉 💔 🏷	100	2 ½ x 3 ¾	3⁄4 - 1	Tan / Green Stripes	Semi Bush	While at first glance it may not have great eye appeal, our trial partners tell us its one of the best tasting winter squash they've ever tried, and its unique appearance makes it an option for fall decoration too.		

SQUASH WINTER DEL	ICATA .	/ SWEE	ET DUN	/PLING	j
Priced per package	1 oz.	4 oz.			
Priced per pound in these package sizes			1#	5#	25#
42945 Festival	12.50	39.75	109.15	108.15	106.65
42911 Sweet Dumpling FI400	16.00	50.50	139.00	138.00	136.50
Priced per package	250 Seeds			M=1,0	00 seeds
Price per 1,000 seeds (M)		1M	3М	25M	100M
Price per 1,000 seeds (M) 42957 Bush Delicata	14.85	1М 39.50	зм 36.50	25М 34.50	100М 33.50
1	14.85 16.10				
42957 Bush Delicata		39.50	36.50	34.50	33.50
42957 Bush Delicata 42957 Bush Delicata ^{F400}	16.10	39.50 42.85	36.50 39.85	34.50 37.85	33.50 36.85
42957 Bush Delicata 42957 Bush Delicata ^{FM00} 42933 Jester	16.10 17.15	39.50 42.85 45.70	36.50 39.85 42.70	34.50 37.85 40.70	33.50 36.85 39.70



SQUASI	WIN	WINTER HUBBARD							
ltem #	▼ Variety	Days	Fruit Size	Weight pounds	Color	Habit	Features		
42906	Blue Hubbard	110	7 x 12"	12 - 14	Blue Gray	Vine	A popular hubbard type with thick, orange, fine textured, sweet flavored flesh. Claimed by some to be the best of all hubbards.		
42918 🔸	Blue Hubbard New England	120	20 - 30"	30 - 45	Blue Gray	Vine	Largest of the hubbards. Flesh is orange with fine texture and flavor. Rupp produced.		
42944	Blue Magic F1	100	5 x 6"	5 - 7	Blue Gray	Vine	Miniature Blue Hubbard hybrid for those that love the hubbard flavor but are overwhelmed with the normal Blue Hubbard size. Has a true hubbard shape.		
42908	Chicago Warted	115	10 x 13"	12 - 14	Green Black	Vine	Large warts, flesh is rich, fine grained and dry. Use for market or garden.		
42907	Golden Delicious 🏷	100	7 x 14"	10	Red Orange	Vine	Rind is hard and smooth. Flesh is dry, fine grained, and good quality. Used primarily as a processing squash.		
42926	Golden Hubbard	110	11 x 9"	10	Orange	Vine	Slightly smaller than most hubbards, slightly warted, orange color with tan stripes toward blossom end.		
42909	Green True	105	9 x 12"	12 - 14	Dark Green	Vine	Good shipper and keeper.		
42977	Heavenly Hubbard F1	100	12 x 15"	15 - 20	Blue Gray	Vine	A Hubbard hybrid with thick, fine textured flesh and sweet flavor.		
42919	Uchiki Kuri	90	7 x 7"	2 1/2	Orange Red	Vine	Improved smooth Hubbard selection with almost no ribbing on the fruit. Flesh is very sweet and nutty in flavor.		

SQUASH WINTER HUBBA	RD	M=1,000 seeds					
Priced per package	1 oz.	4 oz.					
Priced per pound in these package sizes			1#	5#	25#		
42906 Blue Hubbard	4.75	14.50	39.50	38.50	37.00		
42944 Blue Magic	16.75	52.75	145.40	144.40	142.90		
42908 Chicago Warted	4.50	14.00	38.05	37.05	35.55		
42926 Golden Hubbard	4.75	14.50	39.50	38.50	37.00		
42909 Green True	4.75	14.50	39.50	38.50	37.00		
42919 Uchiki Kuri	16.25	51.50	141.75	140.75	139.25		
Priced per package	250 Seeds						
Price per 1,000 seeds (M)		1M	3M	25M	55M		
Blue Hubbard New 42918 England	18.25	48.55	45.55	43.55	42.55		
Blue Hubbard New 42918 England F400	19.45	51.85	48.85	46.85	45.85		
42907 Golden Delicious	9.40	25.05	22.05	20.05	19.05		
42907 Golden Delicious FI400	10.65	28.35	25.35	23.35	22.35		
42977 Heavenly Hubbard	63.05	168.10	165.10	163.10	162.10		











SPAGHETTI



SQUASH		WIN	ITER SP	AGHET	ГІ				
Item #	▼ Variety	Days	Fruit Size	Weight pounds	Color	Habit	Features		
42950	Pinnacle FI 🏷	85	7 x 5"	3	Bright Yellow	Semi-Bush	Spaghetti squash with a semi-bush plant habit, that allows higher plant densities and higher yields per acre. Fruit ripen to an appealing bright yellow color. The spaghetti strands are fine and have the nutty flavor of a true Spaghetti Squash.		
42946	🔶 Primavera FI 🏷	90 - 95	5 ½ x 10"	2 1⁄2 - 3	Canary Yellow	Restricted Vine	A high yielding Sakata hybrid with good uniformity and attractive color.		
42903	Spaghetti	105	8 - 10"	2 1⁄2 - 3	Light Yellow	Vine	A uniform, purified strain by Hollar. Is slightly smaller and will be an excellent fit for the commercial grower. Good keeper, low-calorie spaghetti squash. Market or garden.		
42929	Stripetti 🕅	95	12"	4	Tan with Green Stripes	Vine	Spaghetti squash in a unique package. Interior "noodles" are just like veg- etable spaghetti but are sweeter and better tasting. Striped, cream colored rind turns orange when well ripened. A very uniform hybrid.		
42981	Vegetable Spaghetti Ò	100	5 ½ x 10"	2 1/2	Creamy Yellow	Vine	Sakata's popular OP spaghetti squash introduced years ago. Long, oval shaped with noodle-like strands inside when cooked.		

SQUASH WINTER SPAGH	IETTI		M=1,000 seeds				
Priced per package	1 oz.	4 oz.					
Priced per pound in these package sizes			1#	5#	25#		
42903 Spaghetti	7.00	22.00	60.25	59.25	57.75		
42981 Vegetable Spaghetti Sakata FI400	11.25	35.75	98.05	97.05	95.55		
Priced per package	250 Seeds						
Price per 1,000 seeds (M)		1M	3М	25M	Seeds /lb.		
42950 Pinnacle F1400	39.15	104.40	82.20	81.70	2,600		
42946 Primavera FI400	34.30	91.35	71.90	71.40	3,500		
42929 Stripetti	20.95	55.85	43.95	43.45	5,900		





MARINA DE CHIOGGIA



RUPP'S TURK'S TURBAN



TINY TURK

SQUASH		WIN	WINTER OTHER								
Item #	▼ Variety	Days	Fruit Size	Weight (pounds)	Color	Habit	Features				
42989	Autumn Frost	100- 105	5-7" x 5-6"	2 - 3	Dark Tan	Medium Vine	Uniquely ribbed, round fruit ripens to dark tan with a frosted overlay. Fruit is similar in taste to a butternut, with superior quality rich flavor and a shelf life of up to 4 months after maturity. Great in fall displays. Intermediate resistance to powdery mildew.				
42901	Banana Pink Jumbo	105	20"	15	Pink / Orange	Vine	Thick, fine grained, light orange flesh. Delicious flavor.				
42971	Galeuse d'Eysines ^{Peanut}	100	6 ½ x 11"	18	Pink	Vine	A warty squash from France with ornamental value plus delicious when fried in butter.				
42948	Georgia Candy Roaster	110	2 1⁄2 - 3'	up to 60	Pink / Orange	Vine	A long, narrow fruited heirloom that is known for its outstanding baking quality. One of the sweetest and tastiest. Enough for the entire village.				
42970	Marina de Chioggia 7 🏷	100	7 x 11"	11	Green warted	Vine	A unique green warted squash from Italy with ornamental value. Bred to be used in gnocchi and ravioli.				
26017	Rupp's Turk's Turban	110	15 x 10	16-45	Orange, Green and White	Vine	Large ornamental turban.				
26024	Tiny Turk 🕜 🏷	100	4 x 5"	1 ½ - 3	Orange, Green and White	Vine	A smaller selection of Turk's Turban. Used primarily as decoration.				
42938	Tricolor Cushaw	110	Large Curved Neck	5 - 10	Gold / Dark Gold Stripes	Vine	Beautiful bright orange squash. Same flesh qualities as other cushaw types. A resurrected old variety.				
26007	Turk's Turban	100	7 x 8"	3 - 4	Orange, Green and White	Vine	An ornamental and edible squash/gourd. Attractive for displays. Keeps well.				

SQUASH WINTER OTHER				M=1,00	0 seeds
Priced per package	1 oz.	4 oz.			
Priced per pound in these package sizes			1#	5#	25#
42901 Banana Pink Jumbo	7.25	22.50	61.45	60.45	58.95
42948 Georgia Candy Roaster	8.00	25.00	68.95	67.95	66.45
42938 Tricolor Cushaw	7.75	24.00	66.05	65.05	63.55
26007 Turk's Turban	6.50	20.50	56.45	55.45	53.95

SQUASH WINTER OTHER				M=1,000 seeds			
Priced per package	250 Seeds						
Price per 1,000 seeds (M)		1M	3M	25M	55M		
42989 Autumn Frost	31.00	82.60	79.60	77.60	76.60		
42971 Galeuse d'Eysines Peanut	28.35	75.50	72.50	70.50	69.50		
42971U Galeuse d'Eysines Peanut Untreated	28.35	75.50	72.50	70.50	69.50		
42971 Galeuse d'Eysines Peanut FI400	29.55	78.80	75.80	73.80	72.80		
42970 Marina de Chioggia	33.25	88.65	85.65	83.65	82.65		
429700 Marina de Chioggia Untreated	33.25	88.65	85.65	83.65	82.65		
42970 Marina de Chioggia F1400	34.50	91.95	88.95	86.95	85.95		
26017 Rupp's Turk's Turban FI400	23.00	61.25	58.25	56.25	55.25		
26024 Tiny Turk	17.20	45.80	42.80	40.80	39.80		
26024 Tiny Turk F1400	18.45	49.15	46.15	44.15	43.15		







GOLDY DOUBLE







7IGG

ORDERS OVER \$350 ARE SHIPPED FREE!

FULL SUN **IMPROVED**

SUNFLOWER/CUT FLOWERS Pricing on page 107 & 109 ltem # ▼ Variety Features Days A single stem with dark yellow petals and dark disc, 68 - 84 inches tall. Seed spacing will affect plant height and head size. 47007 **Full Sun Improved** 60-100 For shorter 6' stems and smaller heads - plant 4" apart. For 7-8' stems and larger heads - plant 6" apart. 47005 **Giant Striped** 80 Confectionery type variety. Striped, plump seeds are well filled and have thin hulls. 6 - 12' tall. Plant at 3-4 pounds per acre. A unique "Gladiola" flower arrangement along the stem. Golden Ray is 5' tall with a flower diameter of 4.5-5.5". Excellent 47081 Golden Ray F1 50-55 for a cut flower as well as a garden ornament. Best performance when top flower removed. Goldy Double is 60-72" tall, with 18-24" stems with large fully double 5-7" blooms with green to yellow centers. Produced **Goldy Double** 45-50 47010 on sturdy branching plants with minimal pollen. 6 - 7' tall with 5" blooms, pale lemon-yellow with dark centers. Free flowering and multiple branched with strong stems are 47016 70 Lemon Queen ideal for cut flowers or borders. NEW 47082 Marley F1 45-70 With unique color combination of cream and purple. Marley is bound to set a new trend. 50-70" tall. 47014 Sunspot Dwarf 55 1 - 2' tall with a full size yellow flower of 10". Does well in the garden or in 8 - 10" pots. Large seed. 5' tall with 5" velvety blooms that are burgundy, chestnut and bronze with a dark center. Well branched, multiple flowered, 47015 70 Velvet Queen free flowering plants with strong stems which are ideal for cut flowers or borders. Its petals are a combination of yellow and brown and under warmer conditions, and strong light, colors may deepen.. NEW 47083 Ziggy F1 45-70 50-70" tall.

More varieties on the next page -->

SUNFLOWER				M=1,0	00 seeds
Priced per package	1 oz.	4 oz.			
Priced per pound in these package sizes			1#	5#	50#
47005U Giant Striped Untreated		8.15	14.75	14.25	14.00
47016U Lemon Queen Untreated	5.40	17.60	49.55	48.55	
47014U Sunspot Dwarf Untreated	5.25	17.20	48.40	47.40	
47015U Velvet Queen Untreated	5.25	17.20	48.35	47.35	

Pricing for Sunflowers and Zinnias continues on page 109 --->.





PROCUT BICOLOR



PROCUT HORIZON



PROCUT ORANGE EXCEL



PROCUT PLUM





PROCUT WHITE LITE

5





SUNFILL GREEN



SUNFILL PURPLE



SUNRICH GOLD



SUNRICH LEMON



SUNRICH LIME

	OWER/CUT FLOWERS			Pricing on page 109				
ltem #	▼ Variety	Days	Features					
ProCut Se	ries Sunflowers							
			ProCut Series Sunflowers are early maturing, pollenless hybrids. Plants are stro 4-6" blooms. All of the ProCut varieties are day length neutral.	ng single stems that are 60-72" high with				
47037	ProCut Bicolor	50-60	When you think about autumn colors you have to include ProCut Bicolor. A spla is the best single stem cutting bicolor sunflower available to growers.	ash of bronzy red on orange tipped petals. I				
47036	ProCut Horizon	45-55	ProCut variety, with rich overlapping orange petals surrounding a traditional da	ark disc, with perfect upward facing blooms				
47035	ProCut Orange Excel	45-55	The next generation of ProCut series. Deep orange color with upright flowers.					
47033	ProCut Plum	50-60	Is it pink? Rose? Mauve? Unique plum colored petals.					
47034	ProCut Red	50-60	The latest breakthrough in sunflowers! Deep burgundy colored petals.					
47031	ProCut White Lite	50-60	Lush white petals border a light colored center disc. An excellent choice paired	with other flowers in bouquets.				
47032	ProCut White Nite	50-60	White petals with a dark center. With unlimited possibilites. Can even be dyed	red and blue for a July 4th vase.				
47080	ProCut Blend	45-60	A blend of the five most popular ProCut Sunflower Series. Plum, Red, White Nit	e, Horizon and Orange Excel				
SunFill Se	ries							
47041	SunFill Green	55-60	SunFill Series Sunflowers are a unique, novel green and purple sunflower. Fast geometric flower head for use as bouquet greenery. They have highly ornamen	tal sepals that wrap the flower face, creating				
47042	SunFill Purple	55-60	a look typically only found on the back of the flower. Pollenless, single stem. Ht	:: 60-72". Should be cut early.				
Sunrich Se								
47001	Sunrich Gold	55-70						
47002	Sunrich Lemon	55-70	Sunrich Series Cut Sunflowers. An early, male sterile, pollenless sunflower used exclusively for the cut flower market. A 48" - 60" plant when cut will have a height of 2 - 2 1/2 feet, with a 5 - 6" flower. Works best if direct sown with a 5" spacing. Nee					
47006	Sunrich Lime	55-70	to keep a dense planting. Over fertilizing will cause the flower to grow too big f					
47003	Sunrich Orange	55-70						
47070	Sunrich Blend	50-70	A blend of the four Sunrich Sunflower Series.					
47004	Sunrich Limoncello Summer	50-65	An early variety in the Sunrich series. Flowers 5 to 10 days earlier than the Gold flower, vibrant yellow changing to a light, creamy yellow tip.	, Lemon and Orange. A unique bi-color				
Zinnia								
50003	Benary Giant Lime	63-77	Fully double, large flowers on long sturdy stems that are perfect for outdoor cut	t flower production. Grows to 47" tall with 5				
50004	Benary Giant White	63-77	flowers. Long vase life.					
50001	Benary Giant Zinnia Mix	63-70	The most eye catching Zinnia mix available. Vigorous plants producing attractiv Salmon Rose, Carmine Rose, Golden Yellow, Orange, Deep Red, White, Purple,	e brightly colored blooms in 12 colors: Lila Bright Pink, Coral, Wine and Scarlet.				
50002	Uproar Rose Zinnia	70-80	Tall-growing, well-branched Zinnia with bright rose 4-5" double blooms. Very u	niform 28-36" height A prized cut flower				





SUNRICH LIMONCELLO SUMMER



BENARY GIANT LIME

NEW

Benary

NEW



BENARY GIANT WHITE BENARY GIANT MIX



UPROAR ROSE

SWISS	CHARD		
ltem #	▼ Variety	Days	Features
43006	Celebration	60	A multi-colored chard. It exhibits highly uniform plants with dark green, glossy leaves. It has vibrant multi-colored petioles and venations with high percentage of pink, yellow and orange chards. Great for producing full-sized specialty chard or baby leaf.
43004	Five Color Australian Heirloom	60	Offers growers a rainbow of stem colors: yellow, gold, orange, pink, violet, green, white, red or striped, plus green, dark green or bronze leaf colors. Has improved tenderness and a mild chard flavor. Can be used fresh as a miniature leaf in salads or cooked when more mature.
43002	Rhubarb	60	Unique crimson stalks look like rhubarb. Dark green, heavily crumpled leaves have delicious flavor.

TOMAT	TILLO		
ltem #	▼ Variety	Days	Features
			A green hybrid tomatillo that has mid maturity, plus a nice plant with strong vigor and cover. Fruit set is very good and offers improved uniformity, yield potential and longer cycle production. Fruit are firm, have healthy husks, attractive green color and
44530	Super Verde	80	above average shelf life.

CIIN		D

SUNFLOWER			M=1,0	00 seeds
	Priced per package	500 Seeds		
	Price per 1,000 seeds (M)		1M	5M
Cut Flowers				
470810 Golden Ray Unter	eated	33.25	52.50	47.55
470100 Goldy Double	Untreated	17.50	27.75	25.20
470070 Full Sun Impro	ved Untreated	28.75	45.25	40.95
470820 Marley Untreated		28.75	45.25	40.95
47037U ProCut BiColo	T Untreated	23.00	36.50	33.10
470360 ProCut Horizo	n ^{Untreated}	23.00	36.50	33.10
470350 ProCut Orange	Excel Untreated	23.00	36.50	33.10
47033U ProCut Plum Un	treated	23.00	36.50	33.10
47034U ProCut Red Untree	ated	23.00	36.50	33.10
470310 ProCut White I	Lite Untreated	28.75	45.25	40.95
470320 ProCut White I	Nite Untreated	28.75	45.25	40.95
47080U ProCut Blend	Intreated	25.25	39.75	35.95
470410 SunFill Green	Intreated	28.75	45.25	40.95
470420 SunFill Purple	Untreated	28.75	45.25	40.95
470010 Sunrich Gold	ntreated	31.00	49.00	44.45
470020 Sunrich Lemor	Untreated	31.00	49.00	44.45
47006U Sunrich Lime	ntreated	31.00	49.00	44.45
47004U Sunrich Limon	cello Summer Untreated	31.00	49.00	44.45
47003U Sunrich Orang	e ^{Untreated}	31.00	49.00	44.45
47070U Sunrich Blend	Untreated	31.25	49.50	44.95
47083U Ziggy Untreated		28.75	45.25	40.95

SUNFLOWER			M=1,	000 seeds
	Priced per package	250 Seeds		
	Price per 1,000 seeds (M)		1M	5M
Zinnia				
50003U Benary Giant L	ime Untreated	25.25	39.75	35.95
50004U Benary Giant V	Vhite Untreated	25.25	39.75	35.95
50001U Benary Giant Z	Xinnia Mix ^{Untreated}	25.25	39.75	35.95
50002U Uproar Rose Z	innia ^{Untreated}	70.00	111.00	100.80

SWISS CHARD			M=1	,000 seeds
Priced per package	4 oz.			
Priced per pound in these package sizes		1#	5#	25#
43004U Five Color Untreated	13.95	36.35	36.10	35.60
43002U Rhubarb Untreated	9.35	24.40	24.15	23.65
Priced per 1,000 seeds in these package sizes	10M	25M	250M	1000M
43006U Celebration Untreated	4.05	3.80	3.65	3.55

TOMATILLO			M=1,0	00 seeds		
Priced per package Price per 1,000 seeds (M)	100 Seeds	500 Seeds	1M	5M	25M	100M
44530 Super Verde	5.10	16.90	27.00	23.45	21.30	20.25



TOMATOES

PLANTING

Sow in greenhouse 4 - 6 weeks before desired planting date. Allow plants to adjust to field conditions for 48 hours before transplanting. Plant transplants up to 6 inches deep.

See "Germination Chart" on page 125 for additional information on germination rate and days to germination at various soil temperatures.

MANAGEMENT

Staking and pruning plants are an important management practice. Staking and pruning allows the plant to concentrate on fruit development and also ensures less damage when harvesting fruit. Staking also keeps fruit from setting on the ground. Grow plants on raised beds with drip irrigation. Scout weekly to ensure crop quality. Consult Midwest Vegetable Production Guide on identification and treatment. www.ruppseeds.com/MVPG

HARVEST

Harvest tomatoes when 60 - 90% red for fresh markets. Consult your buyers on what stage they would like their tomatoes harvested. However, please note that the more red the tomato the shorter the shelf life.

STORAGE

Store at 50 - 60°F and 85 - 95% humidity to ensure the longest shelf life.

DISEASE CODES

ASC - Alternaria Stem Canker **BLS** - Bacterial Leaf Spot **BS** - Bacterial Spec BW - Bacterial Wilt EB - Early Blight FCR - Fusarium Crown Rot Ff - Leaf Mold FR - Fusarium Race # GLS - Gray Leaf Spot N - Nematodes PM - Powdery Mildew PVY - Potato Virus Y TMV - Tobacco Mosaic Virus ToMV - Tomato Mosaic Virus TYLC - Tomato Yellow Leaf Curl SW - Spotted Wilt SBW - Southern Bacterial Wilt VW - Verticillium Wilt

USE

BP - Bedding Plant HG - Home Garden FM - Fresh Market S - Shipping P - Processing

TERMS

GS - Green Shoulders LGS - Light Green Shoulders when ripe UG - Uniform Green Gene ripe fruit are a uniform color DT - Determinate restricted vine or bush

INDT - Indeterminate vining type used primarily in home gardens





CELEBRITY PLUS 🗡



EARLY GIRL PLUS





PINK DELICIOUS



RUBEE GODDESS

TOMA	то	HOME GARDEN / BEDDING Hybrid							
ltem #	▼ Variety	Days	Use	Weight (ounces)	Shoulders	Shape	Habit	Disease	Features
44002	Better Boy	75	HG	8	GS	С	INDT	ASC, FR ¹ , GLS, N, VW	Widely adapted.
44080	Better Boy Plus 🔬	77	FM/ HG	8	GS	С	INDT	ASC, FCR, FR ¹ , GLS, N,SW, ToMV ² , VW	All the great characteristics of the Better Boy, plus more flavor, disease resistance and adaptability.
44076	Big Beef 🔬	73	HG	9 - 10	GS	D	INDT	ASC, FR ^{1,2} , N, TMV, VW	AAS winner with an excellent name that will assure its place in the home garden. High yield, attractive.
44081	Big Beef Plus 📣	75	FM/ HG	9 - 10	GS	D	INDT	ASC, FCR, FR ^{1,2} , GLS, N, SW ⁰ , ToMV ^{0.} ² , ToTV, VW ¹	Boasts better flavor, adaptability, disease resistance and appearance. It has the Crimson Gene that gives this classic tomato a visibly deeper red internal gel.
44003	Big Boy ^{Burpee's}	78	HG	12	GS	С	INDT		Large, popular home garden.
44006	Celebrity	72	FM, HG	8	GS	D	DT	ASC, FR ^{1,2} , GLS, N, TMV, VW	AAS winner. Excellent flavor.
44082 7	🔶 Celebrity Plus 🖍	75	FM, HG	8	GS	D	DT	ASC, FR:0-1, GLS, N, SW:0,TMV ⁰⁻² , VW:0	A widely adaptable hybrid for fresh market and home garden with added resistance to tomato spotted wilt virus. Large, smooth fruit with outstanding flavor.
44035	Early Girl 🐋	60	HG	4 - 6	GS	В	INDT	VW	Popular, early home garden variety.
44098	Early Girl Plus 兪	60	HG	4 - 6	GS	В	INDT	SW	One of the best-selling early varieties on the market just got better. Same great taste, with a great disease package to help gardeners have a great success. Enjoy more fruit per yield.
44009	Lemon Boy	72	HG	6	GS	С	INDT	ASC, FR ¹ , GLS, N, VW	Lemon colored, sweet flavored.
44083	Lemon Boy Plus 📣	70	FM/ HG	7	GS	С	INDT	ASC, FCR, FR ¹⁻³ , GLS, N, ToMV ⁰⁻² , ToTV, VW ¹ ,	Has all the best qualities of the original Lemon Boy, plus added flavor and disease resistance. It has a unique yellow color and a sweet, tangy flavor.
44095	Pink Delicious 🔬	84	HG	8		E	INDT	ToMV ⁰⁻² , GLS, VW ¹	With an average of about half a pound per fruit, this crack-resistant tomato will be sure to please any heirloom lover. High yielding.
44085	RuBee Dawn ঝ	57	FM/ HG	7	GS	С	INDT	ASC, FCR, Ff, FR:0- 1, GLS, N, ToMV ⁰⁻¹ , VW ¹	A large-fruited indeterminate red salad variety that is very early maturing and has great flavor. The fruit are deep oblate in shape, smooth, firm, have a light green shoulder and have a deep red color.
44124	RuBee Goddess 🐼	60- 65	FM/ HG	7	GS	С	INDT	ASC, FR ^{1,2} FCR, Ff A-E, ToMV ^{0,1} VW ¹	A large-fruited indeterminate red salad variety, that is early maturing and has high-quality fruit on a produc- tive plant with strong disease resistance.

TOMATO HOME G.						
Priced per package	100 Seeds	500 Seeds			M=1,00	0 seeds
Price per 1,000 seeds (M)			1M	5M	25M	100M
44002 Better Boy	10.20	39.05	62.45	54.30	49.35	47.00
44080 Better Boy Plus	10.20	39.05	62.45	54.30	49.35	47.00
44076 Big Beef	13.00	50.00	79.95	69.50	63.15	60.10
44081 Big Beef Plus	13.00	50.00	79.95	69.50	63.15	60.10
44003 Big Boy Burpee's	6.95	26.70	42.70	37.10	33.70	32.05
44006 Celebrity	12.25	47.05	75.25	65.40	59.45	56.60
44082 Celebrity Plus	12.65	48.50	77.55	67.40	61.25	58.30

TOMATO HOME GARDEN/BEDDING Hybrid

Priced per package	100 Seeds	500 Seeds			M=1,00	0 seeds
Price per 1,000 seeds (M)			1 M	5M	25M	100M
44035 Early Girl	10.20	39.05	62.45	54.30	49.35	47.00
44098 Early Girl Plus	10.20	39.05	62.45	54.30	49.35	47.00
44009 Lemon Boy	13.65	52.50	83.95	73.00	66.35	63.15
44083 Lemon Boy Plus	13.65	52.50	83.95	73.00	66.35	63.15
44095 Pink Delicious	14.35	55.05	88.05	76.55	69.55	66.20
44085 RuBee Dawn	14.95	57.35	95.55	86.85	82.70	78.75
44124 RuBee Goddess	14.95	57.35	95.55	86.85	82.70	78.75





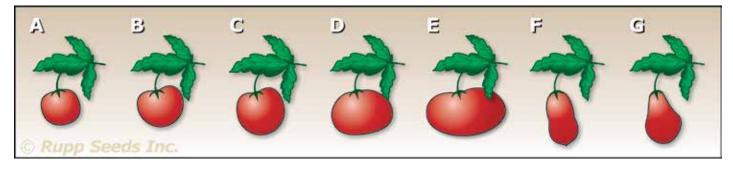








LAGUNA RED



TOMA	ТО	FRE	FRESH MARKET Hybrid									
ltem #	▼ Variety	Days	Use	Weight (ounces)	Shoulders	Shape	Habit	Disease	Features			
44214	★ BHN-964	76	FM, S	10	UG	С	DT	FR, TMV, VW	A variety with early blight tolerance. Beautiful shoulders and excellent interior flesh quality. Sets well in the heat.			
44126	🔶 Carolina Gold 💁	75	HG, FM	10 - 12	GS	С	DT	FR ^{1,2} , VW	A yellow hybrid from Syngenta and North Carolina State University with very small blossom scar, tolerance to cracking and weather check.			
44120	Florida 47 R	75	S	10	UG	С	DT	ASC, FR ^{1,2} , GLS, VW	A Seminis hybrid with exceptional firmness and fruit quality.			
44159	Florida 7514 🌈	75	FM, S	10	UG	С	DT	BS, BW, FR ^{1,2} , GLS, VW	A University of Florida hybrid with excellent disease resistance, fruit, yield, plus good crack resistance and great flavor.			
44045	Grand Marshall	78	FM, S	9 - 10	UG	С	DT	ASC, FR ^{1,2} , GLS, TYLC, VW	Vigorous hot set variety with extra-large and large, firm fruit. Pruning is beneficial at a low to medium level. Strong plant and good field performance under bacterial pressure.			
		•••••	••••••	••••••	•••••••••••••••••••••••••••••••••••••••	••••••		••••	More varieties on the next page>			

GROWER PREFERRED ALL-STARS

LARGE ROUNDS

BHN-964 is a great tomato for the grower who wants the perfect combination of excellent flavor and high yield potential.

Carolina Gold is the choice for tomato growers looking for a large yellow hybrid. Carolina Gold produces large fruit with a small stem scar and a very nice yellow/gold color.

Celebrity Plus is a new version of the longtime favorite Celebrity. Growers and customers will love the same great vine ripe flavor and quality fruit but now with the added benefit of TSWV resistance.

Red Snapper was a new tomato offering from Sakata in 2021. Red Snapper can be used as a vine ripe or a mature green. Fruit quality is excellent with the crimson interior and firmness. Maturity is in the 2nd early segment and benefits from light pruning.

LARGE ROUNDS CONTINUED

TOMATOES

Roadster is the variety for the grower needing a high quality round tomato. It has great flavor, fantastic crimson interior, and 2nd early maturity.

STM2255 will be your workhorse in producing high quality fruit. Use it for the mature green or the mature red market. Also, you'll save on labor because it has the ability to produce without being pruned.

ROMA

Mariana is a great choice for your Roma tomato needs. Mariana produces a large number of medium sized fruit on a medium sized plant. Mariana has been a favorite with growers for years.

> *Liz Meredith Vegetable Consultant*





RAMBLER









STM2255



TOMATO FRESH MARKET Hybrid Weight ▼ Variety Shoulders Shape Habit Disease Features Use Item # Days (ounces) A high quality determinate variety well suited for cool season ASC, FR 1,2 production. Fruit are an attractive red, firm and smooth-shoul-FM, FCR, ToMV 0,1 dered with good flavor. Suited for both mature green and vine Laguna Red 🔬 DT 70 S UG С VW¹ 44061 8 - 12 ripe markets. Ideal for eastern summer production. The strong plant type produces extra-large fruit with delicious flavor that keeps 70 С DT SW 44071 **Mountain Man** FΜ 10-12 UG customers happily returning. An adaptable, high quality determinate salad variety featuring high yield potential of jumbo and extra-large fruit. Fruit size, ASC, FR color, quality, and firmness are excellent. Suited for both ma-68-FM, ¹⁻³ FCR, GLS, ture green and vine ripe markets. The plants are medium-tall Rambler 🐋 S 44123 72 8 - 12 UG С DT SW, VW¹ and benefit from light to no pruning. A high quality determinate variety suited for cool season production. Fruit are an attractive red, firm and smooth-shoul-ASC, FR 1,2 dered with good flavor. Suited for both mature green and vine ripe markets. Medium tall plants that benefit from light FCR, ToMV 0,1 FM, 70 С DT 44063 **Red Snapper** S 8 - 12 UG VW¹ pruning, and a mid-concentrated set. Produces early, large, red, and firm fruit with superior flavor. A determinate that is widely adapted and resistant to some ASC, FR^{1,2,3}, FM, common diseases. It can be harvested green or ripe and is Roadster 🐋 S TSWV, VW 44048 67 8 - 12 UG С DT suitable for shorter growing seasons or late planting. This determinate round tomato is ideal for both the vine ripe FM, GLS, N, SW, and mature green market. The vigorous plant produces a large С 44057 Saybrook 80 S 10 UG DT VW set of extra-large smooth fruit all the way to the top of plant. With excellent interior color, firmness and good eating quality, FR1-3, N, SW, it has a strong plant that provides consistent sized fruit up the 44022 75 11 UG С DT TYLC Skyway 687 FM plant. Fruit size is extra-large to jumbo. STM2255 is a very versatile and adaptable variety with high yield potential and good vine-ripe flavor. Fruit are an attractive ASC, FCR, FR red color, firm and have a good shelf-life. Can be used for both FM, ^{1,2}, GLS, SW, mature green and vine ripe markets. Plants are medium tall, STM2255 have mid cover and benefit from pruning. 44086 70 S UG С DT TYLC, VW¹ 8 - 12 Windup is a full-season determinate, fresh market tomato for TMV, TYLC, the eastern U.S. suited for vine-ripe or gas ripened markets. It ASC, FR 1-3, has shown to produce large to extra large fruits with excellent FM, NEW 44100 Windup 80 8 UG С DT GLS, VW¹ quality and uniformity. Good disease resistance package. S

TOMATO FRESH M	1ARKE ⁻	Г Hybri	d		M=1,0	000 seeds	TOMATO FRESH MARKET Hybrid M=1,00							
Priced per package	100 Seeds	500 Seeds						Priced per package	100 Seeds	500 Seeds				
Price per 1,000 seeds (M)			1M	5M	25M	100M	1	Price per 1,000 seeds (M)			1M	5M	25M	100M
44214P BHN-964 Pelleted	19.10	73.40	122.30	111.15	105.85	100.80	44123	Rambler Pelleted	23.15	89.00	148.30	134.80	128.35	122.20
44126P Carolina Gold Pelleted	14.25	54.75	91.20	82.90	78.95	75.15	44063	• Red Snapper Pelleted	23.15	89.00	148.30	134.80	128.35	122.20
44120P Florida 47 R Pelleted	17.40	66.85	111.40	101.25	96.40	91.80	44048	Roadster Pelleted	20.75	79.70	132.80	120.70	114.95	109.45
44159 Florida 7514	9.20	35.20	58.65	53.30	50.75	48.30	44057	Saybrook Pelleted	18.65	71.70	119.50	108.60	103.40	98.45
44045 Grand Marshall	20.55	79.00	131.65	119.65	113.95	108.50	44022	Skyway 687 Pelleted	18.90	72.60	121.00	110.00	104.75	99.75
44061P Laguna Red Pelleted	20.65	79.35	132.25	120.20	114.45	109.00	4408	5 STM2255	31.90	122.60	204.30	185.70	176.85	168.40
44071 Mountain Man	13.80	52.90	88.15	80.10	76.25	72.60	4410	Windup	15.75	60.40	100.65	91.50	87.10	82.95







RUBY CRUSH







SWEET HEARTS



TIDY TREATS

TOMA	ТО	CHE	ERRY Hy	/brid			
Item #	▼ Variety	Days	Weight (ounces)	Shape	Habit	Disease	Features
44140	BHN-268	68	0.9	Globe	DT	FR ² , VW	Longer shelf life, increased firmness, and a fraction smaller than other hybrids. Ship extremely well. Fewer picks of higher color fruit. Yields are unbelievable.
44059	Chocolate Sprinkles 🔬	55	.45	Globe	INDT	FR ¹ , N	Heirloom flavor and appearance with a modern disease package and firm texture. Performs well in high tunnel and open field. Unique dark red fruit with a green striped exterior and purple flesh color.
44087	Gold Spark 🖍	65	.45	Grape	INDT	Ff, ToMV ⁰⁻² , GLS	Gold Spark a great tasting indeterminate yellow grape with high yield and consis- tent brix throughout the season. Excellent shelf life. Plants display strong vigor with medium height.
44103	Husky Cherry Red	65	1	Cherry	Dwarf Indt	FR ¹ VW	High yields with controlled growth.
44165	Red Grape	68	.35	Grape	INDT		A superior flavored grape tomato from with firm, excellent shaped red fruit.
44047	Ruby Crush 🕢	65	.45	Grape	DT	FCR, FR ^{1,2} , ToMV ⁰⁻² , GLS	Deep red fruit that are very smooth, uniform and firm with a good flavor profile. Limited to no pruning necessary. High yield potential.
44125	Sweet Gold	65	.35	Cherry	INDT	FR ¹ , ToMV ^{0.1}	A very early, indeterminate yellow cherry tomato with good flavor. Plants are high yielding and very vigorous – producing single and double clusters. Fruit are small and weigh around 10 to 15 grams.
44199	Sweet Hearts 🐋	60	.45	Grape	INDT	Ff, Fol, ToMV ⁰⁻²	Hybrid from Sakata with excellent crack resistance, shelf life, high Brix and yields. Sets under cooler conditions than most grapes.
44049	Tidy Treats 💁	50- 55	.24	Cherry	DT	FR, VW	Tons of fruit on a compact plant. Good in small-space gardens and containers.

ΤΟΜΑΤ	CHE	RRY Op	en Polli	nated			
Item #	▼ Variety	Days	Weight (ounces)	Shape	Habit	Disease	Features
44068	Artisan Bumble Bee Mix	70	.78		INDT		A mix of 3 colors of Bumble Bee Cherry Tomatoes. Pink, Purple and Sunrise, which is yellow with red stripes. Excellent sweet and tangy flavor, 0.7-0.8 oz fruit.

TOMATO CHERRY Hybr	rid		M=1,0	000 seeds	
Priced per package	100 Seeds	500 Seeds			
Price per 1,000 seeds (M)			1M	5M	25M
44140P BHN-268 Pelleted	49.65	164.90	274.80	261.70	249.20
44059 Chocolate Sprinkles	26.70	88.65	147.75	140.95	134.20
44087 Gold Spark	67.20	223.20	372.00	354.25	337.35
44103 Husky Cherry Red	7.30	26.90	43.00	37.35	33.95
44165 Red Grape	30.40	100.85	168.05	160.35	152.70
44047 Ruby Crush	51.40	170.60	284.30	271.25	258.30
44125 Sweet Gold	6.95	25.70	41.10	35.70	32.45
44199 Sweet Hearts	62.20	206.55	344.25	327.85	312.20
44222 Sweet Treats	58.95	195.70	326.10	310.55	295.75
44049 Tidy Treats	14.40	47.75	79.55	75.90	72.25
* Multiple packages may be used	to fill order	s for these qu	uantities.		

TOMATO CHERRY Open Pol	TOMATO CHERRY Open Pollinated							
Priced per package	100 Seeds	500 Seeds						
Price per 1,000 seeds (M)			1M	5M				
44068 Artisan Bumble Bee Mix	9.20	34.00	54.40	47.30				

TOMATO GREENHOUSE		M=	1,000 seeds
Priced per package	100 Seeds	500 Seeds	
Price per 1,000 seeds (M)			1M
44093U Foronti Untreated	140.20	539.10	898.50
44020U Torero Untreated	136.70	525.75	876.20
44198P Arnold Rootstock Pelleted	67.00	257.60	429.30
* Multiple packages may be used to fill	orders for these qui	antitioc	

Multiple packages may be used to fill orders for these quantities.











MARIANA



SAN MARZANO

TOMA	то	GREENHOU	REENHOUSE 🗆								
ltem #	ltem # ▼ Variety Use		Weight (ounces) Shape		Disease	Features					
44093	Foronti		9 - 11	Round	Fol ^{1,2} , For, Va ¹ , Vd ¹ , ToMV ⁰⁻²	For growers needing an attractive red colored large beef variety with interme- diate resistance to Powdery Mildew, Foronti tomato hybrid provides a high total production potential with a high average fruit weight.					
44020	Torero	Cold Greenhouse & Tunnels	8 - 9	Round	Ff ^{A-E} , Fol ^{0,1} , For, Va ⁰ , Vd ⁰ , ToMV ⁰⁻² , ToTV	Large beef variety with excellent fruit quality and shelf life. Maintains an excellent fruit size even during summer.					
44198	Arnold Rootstock	Cold Greenhouse & Tunnels		late planti		s a more generative effect on the plant and is therefore suitable for vigorous or in vegetative conditions; such as with growers that produce without heat to					

TOMA	ТО	PRO	CESSI	NG / S	ALAD	ETTE	Hybrid	
ltem #	▼ Variety	Days	Use	Weight (ounces)	Shape	Habit	Disease	Features
44062	BHN-1045	75	FM, S	4	F	DT	FR ^{1,2,3} N, SW, TYLC, VW	BHN1045 has uniform large fruit and a deep blocky shape. A strong determinate plant with an excellent disease package. An all-around improved BHN410.
44555	Inca	65-70	FM, S	5	F	DT	ASC, FOL ^{1,2,3} , VW	Inca is a blocky, elongated-shaped hybrid with large and extra large fruit combined with early maturity. Fruit is deep red, firm, and has a good shelf- life. The plants are medium compact, have mid cover and can set more continuously than other types in this class.
44176	🔶 Mariana	74	FM	4 - 5	F	DT	ASC, FR ^{1,2} , N, VW	A blocky, Roma type with thick walls and very good fruit color. Excellent firmness and shelf life.
44091	San Marzano	61	FM	3.8	F	INDT		A step above your typical Roma with high yields. Classic Italian flavor with an extra kick! Great in sauces and baked dishes.

TURNI	PS / RUTABAGA		
ltem #	▼ Variety	Days	Features
45903	Laurentian Rutabaga	90	A dependable, yellow-fleshed rutabaga for storage and shipping. Selected for its sweet flavor and small necks.
45501	Purple Top White Globe	57	Smooth, globe-shaped, purple topped with, white globe beneath 5 - 6" fruit with white, fine grained flesh.
45001	Tokyo Cross F1	35	A very early, perfect globe shaped root. Can be harvested from 2 - 6" without risk of getting pithy.

Priced per package	100 Seeds	500 Seeds				
Price per 1,000 seeds (M)			1M	5M	25M	100M
44062P BHN-1045 Pelleted	19.10	73.40	122.30	111.15	105.85	100.80
44555 Inca	18.05	69.30	115.50	105.00	100.00	95.20
44176P Mariana Primed Pelleted	15.80	60.70	101.10	91.90	87.50	83.30
44091 San Marzano	12.65	48.60	81.00	73.60	70.05	66.70

TURNIPS / RUTABAGA					
Priced per package	1 oz.	4 oz.			
Priced per pound in these package sizes			1#	5#	50#
45903 Laurentian Rutabaga	4.20	14.45	40.35	39.35	
455010 Purple Top White Globe Untreated		6.85	16.75	16.25	15.75
45001 Tokyo Cross	26.40	91.70	256.45	255.45	



WATERMELON

(Seeded)

PLANTING

Start in the greenhouse and allow 28 - 35 days to get plants ready to transplant. Excessive water during germination must be avoided. Water transplant growing medium well and allow excess moisture to drain and moisture to stabilize for 24 - 48 hours. Bring medium temperature to 80 - 95°F before seeding. Seedcoat adherence to cotyledons may be virtually eliminated by orienting the seed in transplant trays with the pointed end up at a 45° to 90° angle. Plant transplants 6 - 12 feet apart with 36″ between plants.

See "Germination Chart" on page 125 for additional information on germination rate and days to germination at various soil temperatures.

MANAGEMENT

Scout fields every 7 days to monitor weed, insect, and disease pressure. Place pollinating insects near the field to ensure proper pollination. Water only if necessary. Do not over-water.

HARVEST

Ripeness is indicated by a cream to slight yellowing of the white background color of the part of the melon that rests on the ground. Drying of the stem tendril nearest the attachment point of the watermelon and green color tone of the rind are also indicators of ripeness but these vary with cultivar. Melons should be cut from the vine rather than pulled, twisted, or broken off.

STORAGE

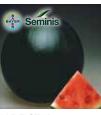
Store at 50 - $60^\circ F$ and at a humidity level of 90 - 95%. This will ensure a long shelf life.

DISEASE CODES

A - Anthracnose F - Fusarium GSB - Gummy Stem Blight







JADE STAR



WAT	ERMELON	LARGE Hybrid							
Item #	▼ Variety	Days	Shape	Weight pounds	Rind Type	Flesh Color	Seed Size	Disease	Features
46041	+ Estrella	80	Long Blocky	20 - 24	Allsweet	Bright Red	Small	A, F	Excellent flavor and texture. Plants are typically vigorous with large leaves. Uniform fruit. Can be used as a pollenizer for seedless production.
46030	🔶 Sangria 🜆	85	Elongated	18 - 22	Allsweet	Bright Red	Large	A, F	Good field performance with excellent taste.

WATE	RMELON	ICE	BOX Hybric	ł					
Item #	▼ Variety	Days	Shape	Weight pounds	Rind Color	Flesh Color	Seed Size	Disease	Features
46051	Jade Star Pata Negra 139	80	Round Oval	15	Dark Green / Faint Stripes	Intense Red	Small	F ¹	An improved Sugar Baby type hybrid with brighter, sweeter flesh and a better vine. For fresh market.
46005	Yellow Doll 139	68	Oval	5 - 7	Medium Green / Dark Stripes	Yellow	Small		Unusual, very sweet home garden hybrid. Crisp flesh.

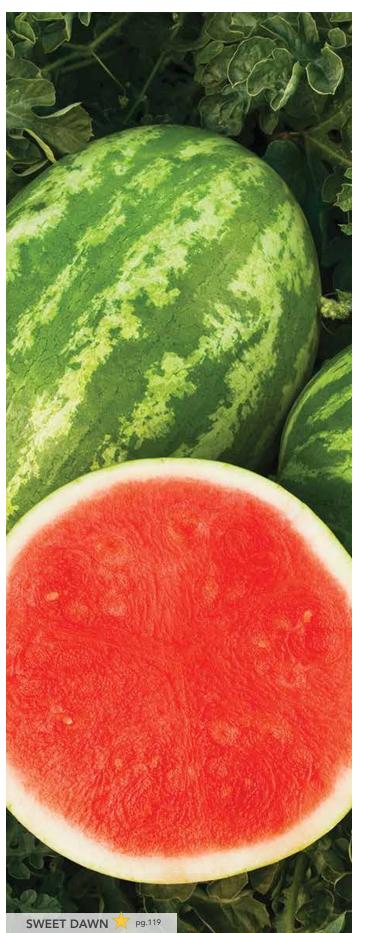
WATERMELON LARGE H	ybrid	M=1,000 seeds			
Priced per package	250 Seeds				
Price per 1,000 seeds (M)		1M	5M	10M*	
46041 Estrella	47.20	121.80	116.80	111.80	
46030 Sangria	49.70	128.20	123.20	118.20	
*NOTICE WATERMELON GROWERS: Cu prior to the shipping of any watermelo		equired to sign	a "Waiver of Lia	bility" form,	
* Multiple packages may be used to fil	Il orders for the	ese quantities.			

WATERMELON ICEBOX M=1,000 seeds 250 Seeds 10M* 107.15 102.15 46051 Jade Star 41.60 114.65 121.70 46005 Yellow Doll 46.85 129.20 116.70 * Multiple packages may be used to fill orders for these quantities.



DOCUMENTS REQUIRED Various products in our catalog require signed documents before seed can be shipped. Look for this document icon with a page number. This will guide you to the page with the appropriate document for the product you are purchasing.

*REQUIRED for all watermelon prior to shipping.



WATERMELON

(Seedless)

PLANTING

Start in the greenhouse. Allow 28 - 35 days to get plants ready to transplant. Excessive water during germination must be avoided. Water transplant growing medium well and allow excess moisture to drain and moisture to stabilize for 24 - 48 hours. Bring medium temperature to 80 - 95°F before seeding. Seedcoat adherence to cotyledons may be virtually eliminated by orienting the seed in transplant trays with the pointed end up at a 45° to 90° angle. Plant transplants 6 - 12 feet apart with 36″ between plants.

As a general rule, direct field seeding of the pollenizer variety should be done on the same day the triploid seed is planted in the greenhouse. Small-fruited, icebox varieties usually flower earlier than standard watermelon varieties. If icebox varieties are to be used as the pollenizer, then direct seeding should be delayed a week to ten days. The diploid icebox pollenizer variety will frequently set fruit and stop producing male blossoms while the triploid variety is still producing female blossoms. Growers may make a second planting of a pollenizer 2 - 3 weeks after the initial planting to provide pollen for the late-developing female blossoms on the triploid variety. No consistent differences among any standard and icebox types in effectiveness of pollination have been noted. Icebox varieties used as pollenizers result in high early yields; standard varieties used as pollenizers result in high total yields.

See "Germination Chart" on page 125 for additional information on germination rate and days to germination at various soil temperatures.

MANAGEMENT

For successful seedless watermelon production, an adequate bee population is especially important to transfer the pollen from the pollenizer variety to the seedless variety (seedless watermelons do not produce pollen). The pollenizer variety is normally planted in alternate, or every third row to ensure adequate pollen movement by the bees. At least eight visits to an individual flower of the seedless variety are necessary for adequate hormonal stimulation for normal fruit development. Scout fields very 7 days to monitor weed, insect, and disease pressure.

HARVEST

Ripeness is indicated by a cream to slight yellowing of the white background color of the part of the melon that rests on the ground. Drying of the stem tendril nearest the attachment point of the watermelon and green color tone of the rind are also indicators of ripeness but these vary with cultivar. Melons should be cut from the vine rather than pulled, twisted, or broken off.

STORAGE

Store at 50 - $60^\circ F$ and at a humidity level of 90 - 95%. This will ensure a long shelf life.





DARK KNIGHT



EL CAPITAN





GOLDEN CRISP



JET SKI





MELODY

ORANGE CRISP







SWEET GEM

WATE	VATERMELON			PLOID Hyl	orid	Pricing on page 121			
ltem #	• \	/ariety	Days	Shape	Weight pounds	Rind Type	Flesh Color	Features	
46093	Am	narillo ¹³⁹	82	Globe	13 - 15	Tiger Stripe	Yellow	A melon with deep yellow flesh a	and less tendency to hollow heart.
46049	Da	rk Knight ¹³⁹	80	Globe	14 - 17	Dark Green	Dark Red	Eye-catching with its globe shape red flesh with medium firmness.	e and dark green smooth exterior. Dark Slightly larger than Sweet Gem.
46052	🔶 El (Capitan 139	85- 90	Blocky Oval	16 - 20	Wide dark green stripes	Deep Red	pattern. This variety has shown e extended shipping and field hole	tractive darker Crimson Sweet rind xcellent yield potential as well as ding ability. Uniform, blocky-shaped fruit n flesh, small pip size and excellent flavor.
46140	🔶 Fas	cination 139	85	Blocky	17 - 21	Crimson Sweet	Dark Red	A variety with very firm, high qua improved disease tolerances to F	lity flesh with small pips. Exhibits Gusarium and Anthracnose.
46155	NEW Go	Iden Crisp 139	85	Oblong	14-16	Dark Green	Yellow	This fruit boasts a remarkably bri rind. Great for fresh markets.	ght yellow firm flesh and a dark green
46100	Jet	: Ski 139 🏷	78	Oblong	14-16	Mottle Stripe	Dark Red		tle stripe watermelon with high average ellent quality with deep red interior color.
46026	lof	v Ride 139	86	Oblong	19 - 20	Mottle Stripe	Dark Red	country. Produces a large percent thick rind and firm fruit with unit with good canopy coverage. Has	ybrid for growing across all regions of the tage of 36-count watermelons. Offers a form setting. Has a vigorous plant type shown a high, industry leading average passing all comparable varieties.
46134	Ме	lody ¹³⁹	80	Globe	14 - 16	Allsweet	Dark Red	Offers growers the advantage of concentrated and uniform fruit s	an early maturing hybrid, with a heavy, et.
46007		ange Crisp ¹³⁹	92	Round / Oval	14 - 18	Jubilee	Orange		ng time in and out of the field. Very crisp sh turns more orange as it matures and n't pick too early!
46053	NEW Por	werhouse 139	86	Blocky	17	Crimson Sweet	Red		ith firm flesh, great internal color and full , a high percentage of 45-count fruit and
46062	NEW Sai	ndbar 139	82	Oblong	14-17	Dark Mottle Stripe	Red		t has a vigorous plant with good yield haracteristics with high uniformity of
46102	🔶 Sw	eet Dawn 139	76	Blocky	16 - 20	Crimson Sweet	Dark Red	Early variety that produces high y market advantages. Firm and sw	yields, offering growers significant first to eet, it's ideal for retail markets.
46008	★ Sw	eet Gem 139	83	Oval	12	Dark Green	Bright Red		at produces uniform, large, oval fruit tive look and superior flavor make it ideal out in the produce aisle.
								More varieties on the next page>	



syngenta®

VIRTUE

TAILGATE

TRIPLOID Hybrid



YELLOW BUTTERCUP











WINGMAN NEW

				Weight		Flesh	
ltem #	▼ Variety	Days	Shape	pounds	Rind Type	Color	Features
	_				Dark mottle	Dark	Adaptable across regions with excellent quality. Expect a vigorous plant with good vine coverage and great flesh firmness with high average
46039	Tailgate 139	83	Oblong	17-21	stripe	Red	Degrees Brix potential.
					Medium Green		
					Background / Dark Green	Bright	Virtue has shown strong early season performance while producing good
46153	Virtue ¹³⁹	85	Oval	16 - 20	Stripes	red	yields and taste.
			•		Dark Green		
4/001	139	00	Round/	14 1/	Background /	Bright	One of the top yellow-fleshed varieties in today's marketplace. Crisp
46021	Yellow Buttercup ¹³⁹	90	Oval	14 - 16	Green Stripes	Yellow	texture and great eating quality.
Personal Si	ze						
							High-quality, Crimson Sweet striped personal size seedless. Medium
46045	Sirius 139	74	Globe	5.5-6.5	Crimson Sweet	Red	thick rind and intermediate resistance to Fusarium wilt race 1. Globe shaped fruit with red flesh and small-medium pip size. Early maturity.
Pollenizers		74	Globe	5.5 0.5	chinison sweet	Red	shaped nut with red nesh and small medium pip size. Early maturity.
Pollenizers							
					Light Green		Farly and automated flavoring pariod that answer early notion
	_		Round /		Background / Medium Green		Early and extended flowering period that ensures early pollenation availability when triploid hybrid begins flowering. Long, thin internodes
46109	Wild Card Plus ¹³⁹		Oval		Stripes		radially extend pollen to wherever a female flower is located.
							Wingman aids in pollen availability during the critical flowering of trip-
46042 NE	Wingman 139 🍅		Round / Oval		Light Green		loid watermelons, and produces small, grey, crushable fruit that is easily distinguishable during harvest.
70042			UVai		Light Oleen		מושמושמשות ממוווע וומועבשו.



DOCUMENTS REQUIRED Various products in our catalog require signed documents before seed can be shipped. Look for this document icon with a page number. This will guide you to the page with the appropriate document for the product you are purchasing.

*REQUIRED for all watermelon prior to shipping.

GROWER PREFERRED ALL-STARS

WATERMELON

LARGE SEEDED

Estrella is early (80 days) with excellent flavor and texture, nice consistently blocky fruit that has a great look at the market.

Sangria is an elongated Allsweet seeded variety excellent for diploid pollination for triploid watermelons.

TRIPLOID

El Capitan has an attractive rind that features wide, dark green stripes. Growers say that it produces good yields, has extended holding ability, and has excellent flavor.

Fascination is the #1 planted variety in the Eastern US for good reasons: high quality interior and a rich non-fading rind color combined with yield and tolerance to Fusarium and Anthracnose. It provides the flavor that your customers demand. **Sweet Dawn** provides great eating quality in an early season seedless. More consistent size and shape as compared to Melody. Will get you to the marketplace a week earlier than Fascination.

Sweet Gem is an industry leader for the all dark rind exterior melons with a very sweet bright red interior

PERSONAL SIZE

Looking for an excellent personal sized watermelon? **Sirius** is for you! It has flavorful red flesh and a crimson sweet rind pattern.

Phil Ramsey Vegetable Consultant

WATERMELON TRIPLOI) Hybri	d		M=1,0	000 seeds
Priced per package	100 Seeds	500 Seeds			
Price per 1,000 seeds (M)			1M	5M	10M*
46093 Amarillo Yellow	76.80	307.10	524.90	517.40	512.40
46049 Dark Knight	77.25	308.95	528.05	520.55	515.55
46052 El Capitan	54.00	215.85	368.90	361.40	356.40
46140 Fascination	57.75	230.90	394.70	387.20	382.20
46155 Golden Crisp	75.25	300.95	514.40	506.90	501.90
46100 Jet Ski ^{F400}	44.40	177.60	303.55	296.05	291.05
46026 Joy Ride	49.75	199.00	340.10	332.60	327.60
46134 Melody	62.50	249.95	427.25	419.75	414.75
46007 Orange Crisp	55.30	221.10	377.90	370.40	365.40
46053 Powerhouse	56.35	225.40	385.25	377.75	372.75
46062 Sandbar	47.15	188.55	322.25	314.75	309.75
46102 Sweet Dawn	63.40	253.50	433.30	425.80	420.80
46008 Sweet Gem	77.25	308.95	528.05	520.55	515.55
46039 Tailgate	51.75	206.90	353.65	346.15	341.15
46153 Virtue	60.95	243.80	416.75	409.25	404.25
46021 Yellow Buttercup	70.55	282.05	482.10	474.60	469.60

WATERMELON TRIPLOI	id		M=1,0	000 seeds						
Priced per package	100 Seeds	500 Seeds								
Price per 1,000 seeds (M)			1M	5M	10M*					
Personal Size										
46045 Sirius	49.60	198.35	339.00	331.50	326.50					
Pollenizers										
46109 Wild Card Plus	41.20	164.75	281.55	274.05	269.05					
46042 Wingman F400	15.80	63.10	107.80	100.30	95.30					
* Multiple packages may be used to f	ill orders fo	or these qua	ntities.							





RUPP HOODIE



RUPP CAMO CAP



RUPP KHAKI & BLACK CAP



CLOTHING			
Item #	Item	Sizes	Features
PHAT.KNIT.1	Rupp Knit Hat	One size fits all	A soft knit hat that features the Rupp logo on the front. It is ready to keep you warm.
PJKT.SWT.HD	Rupp Hoodie Sweatshirt	S - 3XL	Charcoal gray pull-over hoodie sweatshirt with the a large Rupp logo on the front.
PHAT.MESH.G4	Rupp Camouflage Mesh Cap	One size fits all	This ballcap features a sloped front and a pre-formed visor. The cap is all camo with a mesh back. Rupp Seeds logo embroidered in hunter orange.
PHAT.MESH.G5	Rupp Khaki & Black Mesh Cap	One size fits all	This mesh back cap features a Rupp logo patch on the front and has our "See What Good Yields®" tagline on the back.
••••••	Please allow 3-4 weeks for delivery on c	lothing.	

RUPP CLOTHING	RECOM	RECOMMENDED SIZE CHART										
	XS	S	М	L	XL	2XL	3XL					
Men's Size	30-32	34-36	38-40	42-44	46-48	50-52	54-56					
Ladies Size	2-4	6-8	10-12	14-16	18-20	22-24	26-28					
Size Code**	Х	S	М	L	1	2	3					
	** Use item number plus size code. Add a 'T' to the end for tall sizes.											

CLOTHING

Size	xs	S	м	L	XL	2XL	3XL	4XL	5XL	6XL
Size codes	х	S	м	L	1	2	3	4	5	6
PJKT.SWT.HD Rupp Hoodie Sweatshirt		39.40	39.40	39.40	39.40	42.00	42.00			
PHAT.KNIT.1 Rupp Knit Hat	15.75									
PHAT.SOLID.G4 Rupp Camouflage Cap	15.75									
PHAT.MESH.G5 Rupp Khaki & Black Mesh cap	15.75									
Prices include shipping. Allow 3-4 weeks for	delivery.									
Cash discounts are not available on clothing.										





4 OZ. PACKET

BIN MARKERS

KIND_____ VANETY. PRICE____

POINT OF SALE

Seed Packets	Priced per box of 500 packets	Вох
VPOS.PACKET.1Z 1 oz seed	d packets - 3 1/4" x 4 3/4"	63.00
VPOS.PACKET.4Z 4 oz seed	84.00	
Bin Markers		
VPOS.BINMARK 4 3/4" x	6 3/4" Bin Marker - Pack of 25	2.65

PLANTER PLATES

	Priced per plate	1 plate
B John Deere Plates		78.75
C IH Plates		78.75
F Filler Ring		78.75
Give us a call about your planter plate i available for you to make your own cell		lank plates

▲		Seeding Rate			Seed or Plant	Spacing			
	Seeds per Pound	per Acre by Weight	per Acre in 1000s	Seeds per 1000 foot of Row	in Row	Between Rows	Depth	Recommended Soil Temperature	Days to Germination
lsparagus	12,800 - 16,500	7.5 - 11 oz	6.1 - 11.4 M	667 - 1,000	12 - 18"	48 - 60"	.8"	60 - 85°F	10 - 20
Beans Bush Green	1,500 - 1,600	60.5 - 68 lbs	90.8 - 108.9 M	6,000	2"	30 - 36"	.5 - 1"	65 - 85°F	8 - 12
Beet	25,600 - 30,000	5.3 - 6.1 lbs	136.1 - 181.5 M	6,000	2"	18 - 24"	.5 - 1"	60 - 85°F	6 - 10
Broccoli	80,000 - 128,000	2.9 - 3 oz	15.2 - 22.7 M	1,000	12"	24 - 36"	.35"	60 - 75°F	6 - 10
Brussels Sprouts	80,000 - 128,000	1 - 1.4 oz	7.6 M	500	24"	36"	.5 - 1"	60 - 75°F	6 - 10
Cabbage	107,000 - 128,000	1.9 - 2.2 oz	15.2 M	1,000	12"	36"	.35"	50 - 60°F	6 - 10
Cantaloupe	15,000 - 20,000	4 - 4.8 oz	3.8 - 6.1 M	500 - 667	18 - 24"	60 - 72"	.5 - 1"	75 - 85°F	7 - 12
Carrots	320,000 - 410,000	2 - 2.1 lbs	653.2 - 871 M	24,000	.5"	15 - 20"	.5"	50 - 85°F	8 - 12
Cauliflower	116,000 - 128,000	1.1 - 1.3 oz	7.6 - 10.1 M	500 - 667	18 - 24"	36"	.3"	50 - 77°F	6 - 10
Celery	960,000 - 1,417,500	0.5 - 0.8 oz	45.4 M	2,000	6"	24"	.1"	65 - 70°F	21 - 25
Collards	90,700 - 144,000	1.3 - 1.8 oz	10.1 - 12.1 M	667 - 800	15 - 18"	36"	.35"	60 - 75°F	6 - 10
Cucumber	16,000 - 18,000	0.6 - 1 lbs	10.1 - 18.2 M	667 - 1,000	12 - 18"	30 - 36"	.5 - 1"	60 - 95°F	7 - 10
Eggplant	96,000 - 110,000	1 - 1 oz	5.5 - 6.9 M	600 - 750	16 - 20"	60"	.25"	85 - 90°F	10 - 14
Indive	240,000 - 260,000	1.4 - 2.2 oz	22.7 - 36.3 M	1,000 - 1,200	10 - 12"	18 - 24"	.5"	50 - 75°F	10 - 14
Cale	124,000 - 136,000	1.9 - 2.9 oz	15.2 - 24.2 M	667 - 800	15 - 18"	18 - 24"	.255"	60 - 75°F	6 - 10
Kohlrabi	123,000 - 144,000	1.9 - 2.7 oz	15.2 - 24.2 M	667 - 800	15 - 18"	18 - 24"	.255"	60 - 75°F	6 - 10
Leeks	144,000 - 151,000	1.1 - 1.4 lbs	163.3 - 204.2 M	6,000	2"	16 - 20"	.5"	65 - 95°F	10 - 14
ettuce	364,000 - 432,000	3 - 3.4 oz	68.1 - 90.8 M	3,000	4"	18 - 24"	.35"	50 - 75°F	2 - 7
Mustard	204,000 - 272,000	4 - 5.3 oz	68.1 M	1,500	8"	12"	.3"	60 - 75°F	5 - 8
Okra	7,800 - 8,000	1.1 - 1.3 lbs	8.7 - 10.1 M	667	18"	36 - 42"	1"	65 - 95°F	7 - 18
Dnion	106,000 - 144,000	1.4 - 1.5 lbs	163.3 - 204.2 M	6,000	2"	16 - 20"	.5"	32 - 85°F	10 - 14
Parsley	266,000 - 288,000	8.2 - 13.4 oz	136.1 - 242 M	3,000 - 4,000	3 - 4"	9 - 12"	.3"	50 - 86°F	21 - 25
Parsnips	87,000 - 120,000	1.4 - 1.5 lbs	121 - 181.5 M	4,000	3"	12 - 18"	.35"	32 - 75°F	18 - 25
Peas	2,200 - 2,400	41.2 - 90.7 lbs	90.8 - 217.8 M	6,000 - 12,000	1 - 2"	30 - 36"	1.5 - 2"	40 - 86°F	6 - 10
Pepper Twin row on plastic	64,000 - 76,000	2.2 - 2.6 oz	9.1 - 12.1 M	500 - 667	18 - 24"	12"	.35"	65 - 86°F	10 - 14
Pumpkin	3,000 - 3,200	0.6 - 1.2 lbs	1.9 - 3.8 M	333 - 500	24 - 36"	72 - 96"	.5 - 1"	70 - 80°F	7 - 10
Radish	45,000 - 48,000	12.1 - 15.1 lbs	544.4 - 725.8 M	12,000	1"	9 - 12"	.58"	60 - 85°F	5 - 8
Spinach	39,000 - 48,000	3.7 - 11.3 lbs	145.2 - 544.4 M	4,000 - 12,000	1 - 3"	12 - 15"	.5"	32 - 60°F	7 - 10
Squash Summer	2,500 - 6,000	1.7 - 1.8 lbs	4.6 - 10.1 M	500 - 667	18 - 24"	36 - 60"	.575"	70 - 80°F	7 - 10
quash Winter	3,000 - 4,000	1 - 1.3 lbs	2.9 - 5.1 M	500 - 667	18 - 24"	72 - 96"	.575"	70 - 80°F	7 - 10
Sweet Corn	2,700 - 6,000	4.5 - 6.7 lbs	18.2 - 27.3 M	1,000 - 1,500	8 - 12"	30"	.75 - 1.5"	60 - 75°F	7 - 10
ſomato	140,000 - 165,000	0.8 - 0.8 oz	7.6 M	667	18"	48"	.255"	60 - 75°F	7 - 10
ſurnip	173,000 - 192,000	1.4 - 1.6 lbs	272.2 M	6,000	2"	12"	.3"	60 - 75°F	6 - 10
Watermelon .arge	4,000 - 8,000	5.1 - 5.1 oz	1.3 - 2.6 M	333	36"	72 - 144"	.5 - 1"	80 - 95°F	8 - 12
Watermelon Small	8,000 - 10,000	2.6 - 4 oz	1.3 - 2.6 M	333	36"	72 - 144"	.5 - 1"	80 - 95°F	8 - 12

PRODUCED AT DIFFERENT TEMPERATURES* **

Seeds will germinate at a wide range of temperatures. However, there is an optimal temperature that will maximize production time. This chart shows the percentage of seedlings produced at various temperatures and the number of days until seedling emergence at each temperature: shown in ().

The numbers in red = the optimal daytime soil temperature for maximum production in the shortest time.

Crops	32°F	41°F	50°F	59°F	68°F	77°F	86°F	95°F	104°F
Asparagus	0	0	61% (53 d)	80% (24 d)	88% (15 d)	95% <mark>(10 d)</mark>	79% (12 d)	37% (19 d)	0
Beans, lima	0	0	1	52% (31 d)	82% (18 d)	90% (7 d)	88% (7 d)	2	0
Beans, snap	0	0	1	97% (16 d)	90% (11 d)	97% <mark>(8 d)</mark>	47% (6 d)	39% (6 d)	0
Beets	0	53% (42 d)	72% (17 d)	88% (10 d)	90% (6 d)	97% <mark>(5 d)</mark>	89% (5 d)	35% (5 d)	0
Cabbage	0	27	78% (15 d)	93% (9 d)	97% (6 d)	99% <mark>(5 d)</mark>	70% (4 d)	0	0
Carrots	0	48% (51 d)	93% (17 d)	95% (10 d)	96% (7 d)	96% <mark>(6 d)</mark>	95% (6 d)	74% (9 d)	0
Cauliflower	0	0	58% (20 d)	60% (10 d)	62% (6 d)	63% <mark>(5 d)</mark>	45% (5 d)	0	0
Celery	0	72% (41 d)	70% (16 d)	40% (12 d)	97% <mark>(7 d)</mark>	65%	0	0	0
Cucumber	0	0	0	95% (13 d)	99% (6 d)	99% (4 d)	99% <mark>(3 d)</mark>	99% (3 d)	49
Eggplant	0	0	0	0	21% (13 d)	53% (8 d)	60% <mark>(5 d)</mark>	0	0
Lettuce	98% (49 d)	98% (15 d)	98% (7 d)	99% (4 d)	99% (3 d)	99% <mark>(2 d)</mark>	12% (3 d)	0	0
Muskmelon	0	0	0	0	38% (8 d)	94% (4 d)	90% <mark>(3 d)</mark>	0	0
Okra	0	0	0	74% (27 d)	89% (17 d)	92% (13 d)	88% (7 d)	85% (6 d)	35% (7 d)
Onions	90% (136 d)	98% (31 d)	98% (13 d)	98% (7 d)	99% <mark>(5 d)</mark>	97% (4 d)	91% (4 d)	73% (13 d)	2
Parsley	0	0	63% (29 d)	0% (17 d)	69% <mark>(14 d)</mark>	64% (13 d)	50% (12 d)	0	0
Parsnips	82% (172 d)	87% (57 d)	79% (27 d)	85% (19 d)	89% <mark>(14 d)</mark>	77% (15 d)	51% (32 d)	1	0
Peas	0	89% (36 d)	94% (14 d)	93% (9 d)	93% (8 d)	94% <mark>(6 d)</mark>	86% (6 d)	0	0
Peppers	0	0	1	70% (25 d)	96% (13 d)	98% <mark>(8 d)</mark>	95% (8 d)	70% (9 d)	0
Radish	0	42% (29 d)	76% (11 d)	97% (6 d)	95% (4 d)	97% <mark>(4 d)</mark>	95% (3 d)	0	0
Spinach	83% (63 d)	96% (23 d)	91% <mark>(12 d)</mark>	82% (7 d)	52% (6 d)	28% (5 d)	32% (6 d)	0	0
Sweet Corn	0	0	47% (22 d)	97% (12 d)	97% (7 d)	98% <mark>(4 d)</mark>	91% (4 d)	88% (3 d)	10
Tomatoes	0	0	82% (43 d)	98% (14 d)	98% (8 d)	97% <mark>(6 d)</mark>	83% (6 d)	46% (9 d)	0
Turnips	1	14	79% (5 d)	98% (3 d)	99% (2 d)	100% <mark>(1 d)</mark>	99% (1 d)	99% (1 d)	88% (3 d)
Watermelon	0	0	0	17	94% (12 d)	90% (5 d)	92% (4 d)	96% <mark>(3 d)</mark>	0

* The above data was taken from a report published in the mid-1980's. Author, affiliation, and publisher are not known.

** The above table was derived from experimental data. Certain logical inconsistencies exist due to crop failure or to bad batches of seed. They do not interfere with the overall interpretation.



THE IMPORTANCE OF SOIL TESTING

Soil testing is an essential part of growing healthy vegetables. A soil test can provide information about the nutrient levels and pH of your soil. This can help determine what amendments are needed to create optimal growing conditions.

Soil testing is important for a number of reasons. First, it helps to ensure that your plants are getting the needed nutrients and in the correct amounts. Different plants require different nutrients in different amounts. It's important to know what nutrients are available in your soil so you can supplement the soil accordingly.

Second, testing can help identify any potential concerns with your soil. For example, a soil test could reveal problems with your soil's pH, salinity, or detect other concerns that could impact plant growth. By identifying these problems early on, you can take action to give your vegetables the best opportunity to thrive. Third, soil testing can help to improve the quality of your vegetables. Plants that are grown in nutrient-rich soil are more likely to be healthy and productive. Healthy plants are also more resistant to pests and diseases.

To test your vegetable soil, collect a sample from your field and submit it to a local county extension office or a private soil testing laboratory. It is our recommendation that you do not use a home test as the results may not be as thorough as a soil test sent to the extension office or private laboratory.

Once you have your soil test results, use them to develop a fertilization plan for your vegetables. Your local county extension office may be able to help with this.

www.ruppseeds.com/PSUSoil Penn State University offers soil test recommendations



Agriculture	011 Audit ID: 50395 9/17/2024 se visit www.ams.usda.eov/eapelp
United States Department of Agriculture This is to verify that Rupp Seeds, Inc. Pettisville, Ohio has successfully met USDA's acceptance criteria of the voluntary	USDA Good Agricultural Practices Audit <i>House Packing Facility, Storage and Transportation</i> <i>Joury</i> A. Doughert <i>Various Seeds</i> Audit Services Branch Audit services Branch



Letter of Guarantee

To whom it may concern,

Rupp Seeds Incorporated was founded in 1946 and is a family-owned business now in its third generation of family management.

Rupp Seeds is an active member of the American Seed Trade Association (ASTA) (<u>www.betterseed.org</u>), Independent Professional Seed Association (IPSA) (<u>ipseed.org</u>) and Ohio Seed Improvement Association (OSIA) (<u>www.ohseed.org</u>).

Involvement in these organizations ensures that we stay abreast of best practices in managing seed and variety quality throughout production and processing in a manner that meets and exceeds industry standards.

Rupp Seeds is an authorized seed dealer for many of the leading vegetable seed breeders and producers. Rupp Seeds and its seed suppliers employ Good Agricultural Practices in the production of commercial seed lots and every effort is made to minimize microbial contamination during production and processing. Seeds sold to Buyer are of adequate quality for use in raising a crop.

Rupp Seeds has contracted with a third party to manage pest control in its seed storage and processing facilities.

This is a continuing guarantee, subject to revocation only on written notice to Buyer.

Philip Rupp President

October 1, 2024

VARIETY DESCRIPTIONS

Variety descriptions and images presented in this catalog serve as a guideline only. They are provided for comparison purposes to help you plan your crop program and can be expected to vary to some degree depending upon location, soil type, environmental conditions, crop management practices, pest or pathogen presence, and other uncontrollable factors that may affect the expected performance. Descriptions in the catalog are the result of favorable growing conditions and identical results are not guaranteed.

Statements regarding a variety's response to a specific pest, pathogen, or stress are based on evaluation under select conditions. These reactions can be affected by the factors mentioned above, as well as new pathogen races, pest types or vectors for disease. Therefore, we give no warranty, express or implied, for crop performance relative to the information given; nor do we accept any liability for any loss, direct or consequential, that may arise from any cause. Read all seed package labeling carefully as it contains terms and conditions of sale.

LIMITATION OF WARRANTY AND LIABILITY

Rupp Seeds, Inc. ("Rupp Seeds") warrants that a representative sample of seed in this container (collectively "Seed") was tested and labeled at the time of initial packaging (or thereafter as indicated) and, at the time of such testing, conformed to the label description within recognized tolerances.

Disclaimer of Warranties: Rupp Seeds makes NO other warranty of any kind. THIS EXPRESS WARRANTY EXCLUDES ALL OTHER WAR-RANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTY OF MERCHANTABILITY AND THE WARRANTY OF FITNESS FOR A PAR-TICULAR PURPOSE. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION HEREON. Rupp Seeds makes NO warranty that the Seed is free of seed-borne diseases, including but not limited to bacterial fruit blotch, or free of genetically modified organisms. All risks of nonperformance, reduced performance, or crop damage are assumed by User. As permitted by law, the Seed is sold "As Is."

Acceptance of Terms: Any person who buys, receives, opens the package or uses the Seed (collectively the "User") accepts and agrees to this Limitation of Warranty and Liability between User and Rupp Seeds. If User did not purchase the Seed directly from Rupp Seeds, User agrees that Rupp Seeds is a third-party beneficiary and is entitled to enforce this Agreement as if it had been entered into between User and Rupp Seeds. User agrees to accept full responsibility for the performance of the Seed and crop. IF USER DOES NOT ACCEPT THESE TERMS, USER MUST RETURN THE SEED IN THE UNOPENED CONTAINERS TO THE PLACE OF PURCHASE FOR A FULL REFUND WITHIN 30 DAYS OF RECEIPT.

Notice, Waiver and Indemnification Regarding Untreated Seed: Rupp Seeds may apply fungicide and/or insecticide treatments and/or biological seed enhancements to the Seed in an attempt to reduce the loss of plant stand or failure to establish a plant stand due to micro-organisms and insect attack during germination and plant establishment. Rupp Seeds does not warrant that any treatment will be effective. While Rupp Seeds will provide customers with untreated seed at their request, Rupp Seeds does not accept any liability for failure of such untreated seed to establish a stand. User acknowledges the risks associated with untreated seed, including when such seed is planted directly into field soil. User knowingly and voluntarily releases and waives any and all claims related to untreated seed against Rupp Seeds.

User will communicate the risks of use of untreated seed prior to User's sale or transfer of the Seed and will execute the same or similar agreement with any third party. USER WILL INDEMNIFY, DEFEND AND HOLD RUPP SEEDS HARMLESS FROM ANY AND ALL CLAIMS BY THIRD PARTIES ARISING FROM THE PERFORMANCE OF UNTREATED SEED. Exclusive Remedy: User's Exclusive Remedy and Rupp Seeds' sole liability for any claim or loss, including, without limitation, claims resulting from breach of warranty, breach of contract, tort, fiduciary obligation, strict liability, or negligence resulting from the use of the Seed is limited to a refund of the price paid for the Seed and will not include incidental, consequential, or exemplary damages, such as loss of yield or lost profits. User agrees that Rupp Seeds' refund of the price paid for the Seed will not cause this Agreement to fail of its essential purpose. Allocation of risk between Rupp Seeds and User is reflected in the purchase price.

Immediate Notice: User must give Rupp Seeds immediate notice (no later than 15 days upon discovery) when User believes a Breach of Warranty exists, and User will fully cooperate with Rupp Seeds in any investigation.

Notice of Required Arbitration/Conciliation/Mediation Required by Various States: Under the seed laws of many states, arbitration, conciliation or mediation is required as a prerequisite to maintaining a legal action based upon the failure of seed to which this notice is attached to produce as represented. The User must file a complaint (sworn in some states) along with the required filing fee (where applicable) with the Commissioner or Secretary of Agriculture of the State within such time as to permit inspection of the crops, plants, or trees by the designated agency and the seedsmen from whom the seed was purchased. A copy of the complaint must be sent to Rupp Seeds by certified or registered mail, or as otherwise provided by statute in such State.

Technical Advice: Any technical advice regarding the use of the Seed by Rupp Seeds or any representative shall be with no warranty of results and Rupp Seeds expressly disclaims any warranty and liability for any technical advice or recommendation.

Product Data Limitations: Product data and ratings are based on averages of results from various test locations. They are a summary of past results and not a prediction of future performance. Performance will vary depending on the actual environment, pathogen strain and management conditions in your field. Product data and ratings are the result of favorable growing conditions and identical results are not guaranteed, and Rupp Seeds make no warranty regarding the performance of the Seed in the User's field.

Use Restriction: The Seed is owned by, or licensed to, Rupp Seeds and Rupp Seeds strictly limits the sale and possession of the Seed to a grant to User of a non-exclusive right to use the Seed for the sole purpose of growing a single crop of plant parts for sale or use as a vegetable product. User shall not export, reproduce, multiply or breed the Seed, and shall not genetically analyze or manipulate in any way the Seed for any plants or plant parts produced from the Seed. User shall include this Agreement with any transfer of the Seed.

Jurisdiction and Venue: This Agreement is governed by and shall be construed in accordance with the laws of the State of Ohio. User agrees that all disputes arising out of or in connection with this Agreement must be resolved by a Court of competent jurisdiction in the County of Fulton, State of Ohio. User irrevocably submits to the exclusive jurisdiction of such Court for the purpose of litigating any and all such claims or disputes.

Severability: If any term of this Agreement is held to be unenforceable, all remaining terms will remain in effect and will be fully enforceable.

Entire Agreement: This Agreement is the entire Agreement between Rupp Seeds and User regarding warranties, liabilities and limitations on warranties and liabilities.

TERMS AND PAYMENT INFORMATION

PAYING FOR YOUR ORDER

We accept payment via credit or debit card, check, and ACH. Open account terms and financing are available for qualifying customers. Cash discounts are available for select payment methods and products.

Credit Card

We accept the following credit cards: Discover, MasterCard, or VISA. Please indicate which card you wish to use and furnish a complete card number, expiration date, 3-digit verification code, name on card, and billing address of the account holder. Your credit card will not be charged until your order is shipped. Credit card payments are not eligible for cash discounts.

Check

We accept business or personal checks, money orders, and cashier's checks, which are eligible for payment discounts. Please refer to the Cash Discount Program for details.

If paying by check (*please write "US Funds" on the check*), allow 10 days for your check to clear the bank before your seed will be shipped.

A fee of \$25.00 will be charged for any check returned by the bank.

ACH/Electronic Check

We accept payments via ACH deposit into our checking account, which are eligible for cash discounts. Refer to the Cash Discount Program for information. Please contact our office for details.

Open Accounts

Open account terms are available to qualifying customers. To establish credit terms, a customer must have a minimum of \$1000 in seed purchases, and a Rupp credit application must be completed, submitted for review, and approved by our credit department. Please allow several weeks to process.

Payments on open account invoices are eligible for cash discounts. Please refer to the Cash Discount Program for details.

Invoice Terms

Payment in full is expected on or before the due date indicated on the invoice, not from the statement date.

Past due invoices will be charged a finance charge of 1.5% per month on the past due amount.

Any fees or legal expenses incurred in collecting unpaid accounts will be charged to the account to the extent permitted by law.

CASH DISCOUNT PROGRAM

Rupp Seeds offers a cash discount program as an incentive for timely payment of your seed order or invoice.

Savings are automatically applied, and total savings are based on the amount paid and the postmark date on your envelope. Cash discounts are available for orders over \$350.00.

Use the following table to determine your discount rate for the month in which you are sending payment.

August 10.0%	January 5.0%
September 9.0%	February 4.0%
October 8.0%	March 3.0%
November 7.0%	April2.0%
December 6.0%	

Our cash discount program can be applied in the following situations:

A) Prepay on account – Make a payment on your account as prepayment for your expected purchases in the coming season.

a) To calculate the value of a prepayment, divide the amount of the payment by the difference between 100% (1) and the discount percentage for the month of your payment. Using November 7% as an example, a \$1,000 payment is divided by .93 and the total purchase value of that payment is \$1,075.27.

B) Pay with order – After you prepare and total your order, simply calculate and subtract the discount amount based on the month of payment and send a check for the balance.

C) Pay upon receipt of order acknowledgment – You can also receive a cash discount for a payment made after receipt of your order acknowledgment. Payment can occur at any time before your seed is shipped.

Please note the following details about cash discounts:

Cash discounts are only available on vegetable seeds. Cash discounts are not available for non-seed items including clothing, accessories, planter plates, popping corn, supplies, freight charges, etc.

Payment discounts are not available on orders less than \$350 or for credit card, debit card, and COD.



5 WAYS to ORDER*

* Use only a **single method** to order.

(Example: If mailing order, don't place order online.)

PHONE:

1-800-700-1199 (M-F 8:00 am - 5:00 pm EST)

ONLINE:

www.ruppseeds.com

Our website will initially display pricing for U.S. customers. In order to view Canadian pricing (in U.S. Funds), please log in to the website or reference this catalog.

FAX: 419-337-5491

MAIL: Rupp Seeds 17919 County Road B Wauseon, OH 43567

EMAIL:

orders@ruppseeds.com

HOW TO ORDER

- Print clearly. Please correct any errors in your name and/or address and phone number. Be sure to provide both your billing address and your physical (911) address (where seed should be shipped) and phone number. If you have moved since your last order, please check mark the box for change of address and include your old address as well.
- For each item ordered, print the item number, quantity, package size (ex. 1/4lb. etc.), name of item and price for quantity ordered.
- Shipping and handling charge applies to **each** shipping address for orders under \$350.00.
- If the order is to be shipped to a different address, please indicate the name and address.
- Please include any required waivers or licensing information with your order.
- Please pay with check (*write "US Funds" on check*), money order, VISA, Mastercard, or Discover. **Do NOT send cash.**
- To avoid delays in delivery, we advise ordering early. Our peak season runs from February through April. During this time, orders may take longer to be processed and shipped.

ORDERING INFORMATION

The majority of our seeds are **treated**. Items that are available untreated are indicated in the price tables with a 'U' at the end of the item number. Please be sure to include the 'U' when filling out your order form, if you desire untreated seed.

In case of either partial or total crop failure, we reserve the right to prorate delivery.

Products are sold by the package size. For example: if you are ordering 7 pounds of sweet corn, you will need to order one - 5 pound package and two - 1 pound packages. These package sizes will be at different price breaks.

PRICES ARE IN US FUNDS and are subject to change without notice.

PAYING FOR YOUR ORDER

We accept payment via credit or debit card, check (*please write* "US *Funds*" on check), and wire transfer. Open account terms are avail-



able for qualifying customers. Payment discounts are available for select payment methods and products. See page 130 for more details on cash discounts and financing options.

SHIPMENT OF YOUR ORDER

All orders will be shipped after payment has been received. If you are paying by check (*please write "US Funds" on check*), please allow 7-10 business days for your check to clear.

A \$15.00 shipping and handling charge will be added to all orders less than \$350.

Our preferred and standard method of shipping is UPS Ground.

We reserve the right to ship your order via the most economical carrier, so in addition to UPS we also utilize our own delivery trucks, truck line and the US Postal Service.

PICKING UP YOUR ORDER

If you would like to pick up your order, we require 24 hour advanced notice.

ON RECEIPT OF YOUR ORDER

INSPECT YOUR SHIPMENT

Please review the packing slip and contents upon receipt to confirm you have everything you need before planting time.

DAMAGED SHIPMENTS

A small percent of shipments may get damaged during transit. If you receive a damaged shipment, please be prepared to take action so you can receive proper credit or replacement. Our Customer Service department will file a claim with the shipping company and will need some information from you.

Here are guidelines to keep in mind and actions you should take to help expedite a claim.

- Take time when unloading. Count the packages and pieces received and look for any damaged shipping containers and packages.
- Tell the driver to note any shortage or damage on all copies of the freight bill, take pictures, and to sign their full name clearly.
- Immediately contact our office at 800-700-1199 and fax a copy of the freight bill along with a description of the damage, along with any pictures of other documents to 419-337-5491, or email it to us at orders@ruppseeds.com or mail it to us within 10 days.
- Include a note identifying the name and quantity of each variety that is missing or damaged.

RETURNS

Rupp Seeds has no control over the handling and care of the seed once it leaves our warehouse. In order to ensure quality seed for all of our customers, *we will not accept any seed returns* except in situations where an error has been made in fulfilling your order. In the event of an error, contact our office within 15 days of receipt of the order to obtain approval for the return.



Rupp Seeds Inc. 17919 County Road B Wauseon, Ohio 43567



Online Orders: www.ruppseeds.com

Phone Orders: 1-800-700-1199 | FAX Orders: 419-337-5491

		GST Number
	\Box Yes, I am a first-time customer	Technology License Number
Account Number		Requested Ship Date
Customer Name		Ship To
		Address (Physical Address - no PO Boxes)
City		(Filysical Address - no FO Boxes) City
Province	Postal Code	Province Postal Code
Email Address		Office/Home Phone
□ I have a new mailing address. (List	t old address on the back of the order form.)	Mobile Phone
PAYMENT METHOD:	Account Number	
Debit Card		Expiration
Credit Card Discover, Mastercard, Visa		Date 3-digit Month Year verification code
🗌 Check #	Name on card (please print)	
🗌 Money Order		
Credit Cards and Debit Cards are not eligible for cash discounts.	Card Billing Address	
	Signature	

				Sorry, r	no retur	ns — please o	only or	der the seed you	u need
Item No.	Variety Description / Kind	Quantity	Package Size	Price per Price per		Price pe package		Extended P	rice
13007	Walker Deluxe	2	100 seed			13	70	27	40
		When priced p	per package (qu	iantity x packag	ge price) = extended p	orice.		
02126	Ambrosia / Corn	2	5#	18	00			180	00
03235	Octane / Corn	1	2.5M	12	95			32	38
	When price	ed per LB or M (qu	antity x packag	e size) x price p	er LB/N	1 = extended p	orice.		8 • • •
									*
									• • • •
									•
									•
Seed is sold by	package size. For instance, if you need 6 pounds of	sweet corn.	Cash D	iscounts!		: Total (Ab	ove)		
you will need t	o order one - 1 pound package and one - 5 pound po	· · · · · · · · · · · · · · · · · · ·		\$350.00 130 for details	-	Total (B	ack)		•
These раскаge	e sizes will be at different price breaks.		see page		-	Order T	,		
Signature		Date			acc Cra	edit on Acco			•
Signature		Date				n last statem			-
						Sub T	otal		•
* To avoid ship	ping delays, please include all required waivers/doo	cuments with your	order.			Cash Disco is over \$350			*
						oing & Hand s under \$350		\$15	00
** See the terr	ns page for details on discounts and shipping charge	25.			Net	Due (<mark>US Fu</mark> i	nds)		•

2024 Vegetable Seed Order Form | Rupp Seeds Inc., 17919 County Road B, Wauseon, OH 43567

Item No.	Variety Description / Kind	Quantity	Package Size	Price per LB/ Price per M	Price per package	Extended Price
				-		
				* * *		
					*	
					* * *	
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					*	
					-	
					* * *	
					- 	
					- - - -	
	Carry this total forward to the	he front of the o	order form.		Total (Back)	





Rupp Seeds Inc. 17919 County Road B

Wauseon, Ohio 43567



Online Orders: www.ruppseeds.com

Phone Orders: 1-800-700-1199 | FAX Orders: 419-337-5491

		GST Number
	☐ Yes, I am a first-time customer	Technology License Number
Account Number		Requested Ship Date
Customer Name		Ship To
Billing Address		Address (Physical Address - no PO Boxes)
City		City
Province	Postal Code	Province Postal Code
Email Address		Office/Home Phone
□ I have a new mailing address. (List	old address on the back of the order form.)	Mobile Phone
PAYMENT METHOD:	Account Number	
Debit Card		Expiration
Credit Card Discover, Mastercard, Visa		Date 3-digit 3-digit 3-digit yerification code
Check #	Name on card (please print)	
Money Order		
Credit Cards and Debit Cards are not eligible for cash discounts.	Card Billing Address	
	Signature	

				Sorry, no	return	s — please o	only or	der the seed you	ı need
Item No.	Variety Description / Kind	Quantity	Package Size	Price per Ll Price per l		Price per package		Extended Pr	ice
13007	Walker Deluxe	2	100 seed	6 6 6		13	70	27	40
		When priced p	er package (qu	antity x package	price)	= extended p	rice.		
02126	Ambrosia / Corn	2	5#	18	00			180	00
03235	Octane / Corn	1	2.5M	12	95			32	38
	When price	ed per LB or M (qu	antity x packag	e size) x price pe	r LB/M	= extended p	rice.		
				* * *					
						•			
						•			
	package size. For instance, if you need 6 pounds o		on	iscounts! - orders	<	Total (Abd	ove)		
,	o order one - 1 pound package and one - 5 pound p e sizes will be at different price breaks.	ackage.	over	\$350.00 130 for details		Total (Ba	ack)		
			See pag	~~	_	Order To	otal		
Signature		Date				dit on Acco			
				(as sho	wn on	last statem Sub Te	-		
					_				
* To avoid ship	ping delays, please include all required waivers/do	cuments with your	order.			Cash Disco 5 over \$350.			
						ng & Hand i under \$350.		\$15	00
** See the terr	ns page for details on discounts and shipping charg	es.				under \$350. ue (US Fun			
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2024 Vegetable Seed Order Form | Rupp Seeds Inc., 17919 County Road B, Wauseon, OH 43567

Item No.	Variety Description / Kind	Quantity	Package Size	Price per Price per	LB/ M	Price per package	Extended Price
							0 0 0 0 0
						* * *	
					-		
							• • •
	Carry this total forward to the	front of the o	order form.			Total (Bac	k)



Item No.	Variety Description / Kind	Quantity	Package Size	Price per Price per	LB/ M	Price per package	Extended Price					
							8 9 					
						-						
							6 6 6					
	Carry this total forward to th	ne front of the d	order form			Total (Back)						
					Carry this total forward to the front of the order form.Total (Back)							



Item No.	Variety Description / Kind	Quantity	Package Size	Price per Price per	LB/ M	Price per package	Extended Price
							9 9 9 9
							* * *
							-
							6 6 6 6
							*
	Carry this total forward to the	e front of the o	order form.			Total (Back)	





Rupp Seeds Inc. 17919 County Road B Wauseon, Ohio 43567

Watermelon Waiver 800.700.1199 FAX 419.337.5491 waivers@ruppseeds.com

NOTICE, WAIVER and COMPLETE RELEASE AGREEMENT

Bacterial Fruit Blotch (BFB) and Gummy Stem Blight (GSB) are serious diseases that have become significant risk factors in many areas where watermelons are grown. The Pathogens causing these diseases (Acidovorax avenae subsp. citrulli for BFB and Didymella bryoniae for GSB), and other watermelon diseases, can be introduced into a field by infested seed, infected transplants, volunteer watermelons, mechanical means, or natural spread from alternate hosts, or may already be present in the field on crop debris or in the soil. While it is impossible to conduct testing procedures that will give 100% reliable results with regard to the identification of any seedborne pathogen, Rupp Seeds' suppliers test all of their watermelon seed lots for commercial sale.

Depending on the supplier, a representative sample of seeds from each watermelon seed lot has been tested pursuant to current industry standards, and no symptoms of these Pathogens were found to be present within the known limits of detection in the sample tested. Rupp Seeds understands that its suppliers have tested representative samples of all watermelon seed lots covered by this agreement and have not detected the presence of the Pathogens in any such representative samples. Notwithstanding the above, <u>Rupp</u> <u>Seeds cannot and does not guarantee or warrant that such tests</u> <u>are totally conclusive nor that the seeds are free of the Pathogens</u> and, further, cannot and does not guarantee or warrant that the Pathogens may not be introduced to such seeds and/or watermelon plants from outside sources at a later time.

GROWER'S RELEASE OF ALL LIABILITY FOR BACTERIAL FRUIT BLOTCH.

Acknowledging the above, Grower still wishes to purchase watermelon seeds, and Grower is willing to assume all risks of loss associated with these Pathogens. Accordingly, Grower hereby <u>fully</u> and unconditionally releases Rupp Seeds and its suppliers from any and all liability with respect to the presence of the Pathogens on or within such seeds, or the vulnerability of such seeds, to the Pathogens. Grower acknowledges and agrees that Rupp Seeds and its suppliers shall have no responsibility or liability for any losses or damages relating in any way to the Pathogens under any legal theory including. but not limited to, negligence, breach of warranty, breach of contract, or strict products liability.

Rupp Seeds acknowledges that all other aspects of its express warranty, as contained on the label, do apply, and that any waiver or limitation on the Rupp Seeds express warranty resulting from the terms and conditions of this Agreement, only apply to the presence on or within, or vulnerability of such seeds, to the Pathogens. Grower further agrees that Rupp Seeds and its suppliers also have no liability or responsibility for its watermelon seeds or plants grown therefrom if they are contaminated with the Pathogens after the seeds are delivered to Grower. Grower acknowledges that contamination may occur in a transplant house, in the field, or under circumstances beyond the control of Rupp Seeds and for which Rupp Seeds is not liable to Grower. GROWER'S SOLE AND EXCLUSIVE REMEDY FOR ANY CLAIM WITH RESPECT TO THE SALE OF SEEDS IS LIMITED IN ALL EVENTS TO A REFUND OF THE PURCHASE PRICE OF THE SEEDS. Grower shall not be entitled to any incidental or consequential damages, including planting or replanting costs, lost profits, or any other expenses, losses or damages. Notice of any claim must be received by Rupp Seeds by registered mail within thirty (30) days after the alleged defect in the seeds becomes apparent to Grower.

GROWER'S AGREEMENT NOT TO RESELL SEEDS OR PLANTS.

In consideration for Rupp Seeds or its suppliers agreeing to sell watermelon seeds to Grower, Grower hereby agrees that it/he/she will only use such seeds for plantings on its/his/her own holdings, and will not, under any circumstances, sell, transfer, distribute or in any way dispose of any such seeds or seedlings grown from the seeds, with or without consideration, to any third party.

GROWER'S INDEMNIFICATION AGREEMENT.

Grower acknowledges that in the event it/he/she breaches the terms and conditions of the fourth paragraph of this Agreement with respect to the distribution of such watermelon seeds to a third party, Rupp Seeds and their suppliers could incur liability to such third parties. Therefore, Grower hereby unconditionally agrees to defend and indemnify Rupp Seeds and any of its suppliers, from any and all loss, liability, or damage which Rupp Seeds and any of its suppliers, may incur, including, but not limited to reasonable attorney's fees, relating to any claim by a third party who received any portion of the watermelon seeds which are covered by this Agreement as sold by Rupp Seeds to Grower.

ADDITIONAL NOTICE regarding TRIPLOID HYBRID WATERMELON.

Triploid hybrid watermelons are sterile hybrids which characteristically produce fruits with few or no true seeds. Because the absence, or relative absence, of hard or true seeds in the flesh of the melon is its chief distinguishing characteristic, the triploid hybrid watermelon is often referred to as a "seedless" watermelon. Despite this popular perception, triploid hybrid watermelons are not true "seedless" watermelons. The first melons to ripen in a field of triploid hybrid watermelons often contain small, undeveloped seeds. In addition, certain genetic, cultural and climatic factors are known to cause the formation of empty seed coats (small, white, undeveloped seeds), also called "pips", and/or hard seeds in the flesh of the melons. Due to the wide variety of possible causes of hard seed formation, TRIPLOID HYBRID WATERMELONS ARE NOT GUARANTEED TO PRODUCE SEEDLESS FRUIT.

GROWER UNDERSTANDS THIS AGREEMENT.

Grower represents and warrants that it/he/she has consulted with or had an opportunity to consult with an attorney, and that Grower fully understands the meaning and legal effect of this Agreement.

Continued on the back side.

ALL OTHER TERMS OF THE LABEL APPLY.

Except as expressly provided within this Agreement, all remaining terms, disclaimers, limitations, and conditions of purchase as disclosed and set forth on the Rupp Seeds label and on the <u>Rupp Seeds</u> <u>Notice to Purchase Regarding Liability</u> shall apply to the Grower's purchases of watermelon seed.

CHOICE OF LAW AND CHOICE OF FORUM.

The parties agree that this Agreement is entered into the County of the applicable Rupp Seeds supplier and shall be construed in accordance with the laws of that state. It is further agreed that any litigation by and between Grower and Rupp Seeds, or with a Rupp Seeds supplier, relating to the sale of all such watermelon seeds hereunder, shall take place in the county of the applicable Rupp Seeds supplier.

ATTORNEY'S FEES.

In the event that Rupp Seeds or its supplier enforces any terms of this agreement in any litigation with Grower, Rupp Seeds and its supplier shall be entitled to recover reasonable attorney's fees from Grower.

SEVERABILITY.

The invalidity or unenforceability of any particular provision of this Agreement shall not affect the other provisions hereof, and the Agreement shall be construed in all respects as if such invalid or unenforceable provisions was omitted. Grower has read the above Notice, Waiver, and Complete Release Agreement, understands it, and agrees to be bound by all of its terms. Grower understands this Agreement is part of the contract and a condition of sale, and that no shipment from will occur until Rupp Seeds receives this signed notice.

Rupp Seeds Inc.

Signature		

Date

I have read and understand this release agreement and I agree to be bound by all of its terms. Please fill out completely and sign below.

Customer Number
Customer Name
Address 1
Address 2
City
Province Postal Code
Phone #
Fax #
Printed Name
Title
Signature
Date

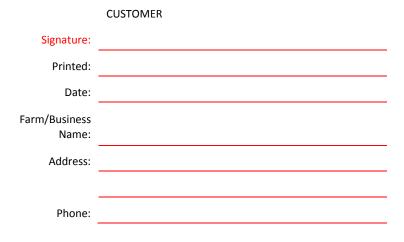


Release Agreement – Gold Dust

For seed below Rupp quality standards

We are informing you that <u>Gold Dust pumpkin</u>, lot number <u>PCH1518</u> (herein Seed) is below Rupp Seeds (herein Rupp) quality standards, in that it contains offtypes and may produce up to 15% fruit that vary in shape, color and size. Rupp is offering the Seed at a 15% discount.

By signing this agreement, the Customer understands the Seed is below standard, agrees to purchase the Seed and understands the Seed is not returnable. The Customer further agrees to release Rupp of any and all claims or liability arising from the use of the Seed, and to indemnify and hold harmless Rupp from any claims by third parties arising out of the planting of the Seed.



Attribute 🖉 Attribute II 🦉 Attribute Plus



Section A GROWER INFORMATION – Complete This Section – PLEASE PRINT CLEARLY	YOU, THE UNDERSIGNED GROWER, HEREBY ACKNOWLEDGE AND AGREE THAT: (1) YOU HAVE READ, UNDERSTAND, AND AGREE TO			
Grower Name (Last, First, MI)	THE TERMS AND CONDITIONS OF THIS AGREEMENT INCLUDING BUT NOT LIMITED TO THE GROWER'S LIMITED USE LICENSE(S) AND GROWER RESPONSIBILITIES SECTIONS; (2) THIS IS A LEGALLY BINDING CONTRACT; (3) YOU ARE FULLY AUTHORIZED TO ENTER INTO THIS STEWARDSHIP AGREEMENT; AND (4) YOU ARE			
Farming or "Doing Business As" (d/b/a/ Name):				
Address:	VOLUNTARILY ENTERING INTO THIS STEWARDSHIP AGREEMENT.			
City: State: Zip Code:				
Business Phone:County:				
E-mail Address:	Grower Signature Date			
(CANADA Only) Dealer Name:	(Individual at farm level responsible for planting)			
Return Agreement using one of the following methods – please keep a copy for your records:				
·	Grower Name (Please Print Clearly)			
Mail: Rupp Seeds 17919 County Road B Wauseon, OH 43567 Email: waivers@ruppseeds.com Fax: 1-419-337-5491	Thank you for choosing one or more of the Licensed Technologies. If you have any questions regarding the Licensed Technologies, please call 1-866-796-4368. For questions regarding this Agreement, please call: 1-877-GRO-CORN (1-877-476-2676).			

This Stewardship Agreement ("Stewardship Agreement") is entered into between you ("Grower") and Syngenta Seeds, LLC ("Syngenta"). By signing and returning this Stewardship Agreement without modification (other than Section A above), Syngenta grants Grower a limited license to use the proprietary technology Bt11 and/or the Bt11 x MIR162 x GA21 stack (each, a "Licensed Technology") embedded in Syngenta's sweet corn seed product or in any seed product distributed by a third party Syngenta-licensee (collectively, "Seed Product"). Any proposed changes to this Stewardship Agreement other than in Section A are hereby rejected by Syngenta and shall have no effect unless approved in writing by Syngenta.

STEWARDSHIP

Grower acknowledges receipt of the applicable Attribute® Grower Guide ("Crop Guide") which is incorporated herein by this reference and may be updated from time to time and found at http://www.syngenta-us.com/seeds/vegetables/commercial-sweet-corn. Grower agrees to periodically check the website for the current Crop Guide and to read and comply with the then current Crop Guide. If Grower uses any Licensed Technology after Syngenta's release of a new version of the Crop Guide or Stewardship Agreement then Growers use shall be deemed an acknowledgement of receipt and agreement to comply with the then current: (i) Crop Guide, (ii) Stewardship Agreement, and (iii) the terms and conditions on the Seed Product packaging (collectively, the "Agreement"). The collective Agreement constitutes the entire agreement between Grower and Syngenta regarding the purchase and/or use of Licensed Technology and supersedes any other terms and conditions whether express or implied.

GROWER'S LIMITED USE LICENSE(S). Grower agrees that the Licensed Technology is protected under one or more U.S. patents (the "Patents"). Once this Stewardship Agreement is signed by the Grower then the Grower is granted the limited right, under the applicable Patents, to purchase and plant sweet corn Seed Products containing the Licensed Technology in the United States or Canada (the "Territory") but strictly according to the terms of the entire Agreement. Grower agrees that any Seed Product acquired in the Territory shall only be planted in the Territory. Further, Grower agrees not to plant Seed Product in the Territory which was acquired outside of the Territory.

GROWER RESPONSIBILITIES. Grower shall: (a) use Seed Products solely for planting a single commercial crop of fresh produce, forage or grain for food, feeding or processing; (b) not supply, transfer, resell, license or sublicense any Seed Products to any other person or entity for planting or any other purpose; (c) not to save any crop produced from Seed Products for planting by Grower or any other person or entity; (d) abide by the terms of the entire Agreement, as it may be updated from time to time as described above; (e) report to Syngenta the number of acres and the location (county and state) where the Seed Product is planted within 45 days of planting; (f) communicate all applicable stewardship requirements and obligations to any of its employees and agents with respect to handling of or work involving Seed Products and/or the crop produced from Seed Products, the monitor such employees' and agents' compliance with Grower's responsibilities under the entire Agreement; and (g) not use or allow others to use Seed Products, the crop produced from Seed Products, the Licensed Technology for: (i) crop breeding, (ii) research (including, without limitation, agronomic testing or generation of cooperative data against sweet com seed not containing the Licensed Technology), (iii) generation of registration data or product (unless Grower has entered into a valid, written production agreement with a licensed seed company expressly authorizing one of more of these actions).

TERM AND TERMINATION. This Stewardship Agreement, once signed by Grower and accepted by Syngenta, will remain in effect until terminated by Grower or Syngenta. This Stewardship Agreement may be terminated by either party at any time for any reason by sending written notice of termination to the other party at the address for such party specified above. In the case of termination of this Stewardship Agreement by Grower, such notice of termination must include Grower's full name and address and Grower must immediately cease using any Licensed Technology. Further, Syngenta may terminate this Agreement for failure of Grower to fully comply with the Grower Responsibilities described above. If Grower violates any terms of this Stewardship Agreement, in addition to other remedies available to Syngenta and any owner of the Patents listed above, Grower may forfeit any right to obtain a license to the Licensed Technology in the future. If this Stewardship Agreement is terminated then Grower will no longer have a right to purchase or use Seed Products, but, Grower's obligations (including but not limited to the above Grower Responsibilities) and Syngenta's rights that arose under the Agreement prior to termination shall remain in effect.

LIMITATIONS OF WARRANTIES AND REMEDIES. Grower agrees that the Limitations of Warranties and Remedies expressly stated on the Seed Product packaging shall be incorporated in this section as if set forth in full.

GENERAL PROVISIONS.

- This Stewardship Agreement and the parties' relationship shall be governed by the laws of the state of Minnesota and the United States (other than the choice of laws rules).
- Grower's rights may not be transferred to any other person or entity without the prior written consent

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REMEDY SWEET CORN – SUPPLEMENTAL AGREEMENT

Section A	YOU, THE UNDERSIGNED GROWER, HEREBY ACKNOWLEDGE AND AGREE THAT: (1) YOU HAVE READ, UNDERSTAND, AND AGREE TO THE TERMS AND CONDITIONS OF THIS SUPPLEMENTAL AGREEMENT; (2) THIS IS A LEGALLY BINDING CONTRACT; (3) YOU ARE FULLY AUTHORIZED TO ENTER INTO THIS SUPPLEMENTAL AGREEMENT; AND (4) YOU ARE VOLUNTARILY ENTERING INTO THIS SUPPLEMENTAL AGREEMENT.	
GROWER INFORMATION – Complete This Section - PLEASE PRINT CLEARLY		
Grower Name (Last, First, MI)		
Farming or "Doing Business As" (d/b/a/ Name):		
	Grower Signature Date	
Address:	(individual at farm level responsible for planting)	
City: State: Zip Code:		
Business Phone: County:		
	Grower Name (Please Print Clearly)	
E-mail Address:	Thank you for choosing one or more of the Licensed Technology. Return this Supplemental Agreement to the address shown below. If you have any questions regarding the Licensed this Supplemental Agreement please call: 1-800-700-1199.	
Customer ID #: (Assigned by Syngenta) Technology #:(Assigned by Syngenta)		
Dealer Name: Rupp Seeds	Please return the agreement back to your Dealer at:	
Dealer Number:(Office Use Only)	Fax: 419-337-5491	
Dealer Phone: 1-800-700-1199	Mail: Rupp Seeds, Inc. 17919 County Road B Wauseon, OH 43567 Email: waivers@ruppseeds.com	
Third Party Syngenta-Licensee:(Office Use Only)		

This Supplemental Agreement ("Supplemental Agreement") is entered into between you ("Grower") and Syngenta Seeds, LLC ("Syngenta") and supplements the terms and conditions of your Stewardship Agreement with Syngenta (by its predecessor-in-interest, Syngenta Seeds, Inc.). By signing and returning this Supplemental Agreement without modification (other than Section A above) and pursuant to the terms of this Supplemental Agreement and the Stewardship Agreement, Syngenta grants Grower a limited license to use the proprietary technology Bt11 x MIR162 x GA21 stack (the "Licensed Technology") embedded in Syngenta's "Remedy" sweet corn seed product or in any seed product distributed by a third party Syngenta-licensee (collectively, "Seed Product"). Any proposed changes to this Supplemental Agreement other than in Section A are hereby rejected by Syngenta and shall have no effect unless approved in writing by Syngenta.

TERM AND TERMINATION. This Supplemental Agreement, once signed by Grower and accepted by Syngenta, will remain in effect until either terminated by Grower or Syngenta, or will terminated automatically upon the termination of your Stewardship Agreement. This Supplemental Agreement may be terminated by either party at any time for any reason by sending written notice of termination to the other party at the address for such party specified herein. In the case of termination of this Supplemental Agreement by Grower, such notice of termination must include Grower's full name and address. If Grower violates any terms of this Supplemental Agreement and/or Grower's Stewardship Agreement, in addition to other remedies available to Syngenta and any owner of the Patents (as defined in the Stewardship Agreement), Grower may forfeit any right to obtain a license to the Licensed Technology in the future. If this Supplemental Agreement is terminated then Grower will no longer have a right to purchase or use Seed Product, but, Grower's obligations (including but not limited to the Grower Responsibilities as set forth in the Stewardship Agreement) and Syngenta's rights that arose under the Stewardship Agreement and this Supplemental Agreement prior to termination shall remain in effect.

ACKNOWLEDGEMENT; LIMITATION OF WARRANTIES AND REMEDIES. Grower acknowledges and understands that Grower has been informed that under certain stress conditions, Remedy sweet corn may exhibit tassels and or glumes (male parts) growing out of the ear (female part) (the "Notice"). By its signature on this Supplemental Agreement, Grower acknowledges and agrees:

- Grower has been duly informed of the Notice;
- Grower accepts the Seed Product "as is", "where is" and with all faults and to assume all risks associated with use of the Seed Product and any actual or perceived impact on any crop yield or quality, and Grower will indemnify and hold harmless Syngenta and Syngenta authorized Distributors, and their respective directors, officers, employees and affiliates from any claims related, directly or indirectly, to the performance or non-performance of the Seed Product and its impact on any crop yield or quality; and
- Grower waives any and all claims and releases Syngenta and Syngenta authorized Distributors, and their respective directors, officers, employees and affiliates, from any and all liabilities relating, directly or indirectly, to the Notice and the use of the Seed Product.

GENERAL PROVISIONS.

- This Supplemental Agreement and the parties' relationship shall be governed by the laws of the State of Minnesota and the United States (other than the choice of laws rules).
- Grower's rights may not be transferred to any other person or entity without the prior written consent of Syngenta.

Rupp Seeds, Inc., 17919 County Road B, Wauseon, Ohio 43567 Email: waivers@ruppseeds.com Fax: 419-337-5491





























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GOLDEN HALO Pg. 42 NEW







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