



2025

SWEET CORN

PUMPKINS

PEPPERS

WATERMELONS

SQUASH

TOMATOES

BEANS

MELONS

CUCUMBERS

CUT FLOWERS

And More Inside!

Catalog &
Resource Guide

VEGETABLE SEEDS



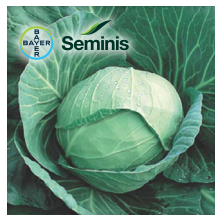
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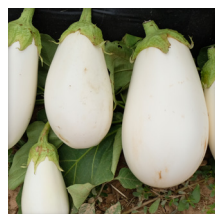
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Dear Grower,

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 discounts and post-harvest financing options are 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.

Sincerely,



Philip Rupp
President



REGIONAL CONSULTANTS



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



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



Jeff Werner
New England, New York
585-622-0027
jeffw@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



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

Our team is ready to assist you in planning for this coming season. Feel free to contact the salesman in your area if you would like their assistance.

Outside of a consultant's territory?
Contact our office (800-700-1199) and a representative will be happy to help you.

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

FAX

419-337-5491

MAIL

Rupp Seeds
17919 County Road B
Wauseon, OH 43567
(envelope provided in the back of the catalog)

EMAIL

orders@ruppseeds.com

Additional ordering information can
be found on page 156.

CASH PAYMENT DISCOUNTS

Cash discounts for orders over \$350.00.
Prepayment discount through April.
See page 154 for details.

POST HARVEST FINANCING

Our premier John Deere financing program features 0% interest until December 2025 on orders placed before December 31, 2024. Additional programs are available through the season. **See page 155 for details.**

FREE SHIPPING

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

INSIDE SALES



Kristen: x7098



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 is one that is gaining some 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.



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 similar varieties in this product category should consider giving this product a try to see if it works for them.



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



Sort Order - This symbol marks the column used to sort the information presented in each product description table. Usually alphabetical by item name or sorted by days maturity.



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.

Gynoeious - (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 154 for more details.

Are there financing options that allow me to buy my seed now and pay at a later date?

Yes, we do offer financing through John Deere Financial. The best plan is no-interest, no-payments until harvest 2025. See page 155 for other program options and details. If you are interested in obtaining credit through John Deere Financial you may fill out the credit application on page 171.

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

This edition of our catalog features over 1,000 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 151.

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 150 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 built-in 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 vegetables available in our catalog are sweet corn and summer squash.

Of the more than 100 varieties of sweet corn roughly 20% are GMO. These include the Performance Series, Attribute, Attribute Plus, and Attribute II varieties listed on pages 32-35.

And of the nearly 30 varieties of summer squash, only one is GMO: XPT 1832 III, on page 116.

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.

ASPARAGUS			M=1,000 seeds		
Priced per package		100 Seeds	500 Seeds		
Price per 1,000 seeds (M)				1M	5M 15M
13007U	Walker Deluxe untreated	13.70	57.05	99.20	86.25 75.00
Priced per package				1 oz.	4 oz. 1#
13001	Mary Washington			6.20	13.00 37.45

ASPARAGUS

ASPARAGUS		
Item #	Variety	Features
13001	Mary Washington	An early, rust resistant selection that is heavy yielding. Used primarily for the home garden.
13007	Walker Deluxe ^{F1}	Tight headed spears with slightly purple bracts. Impressive yields. High disease tolerance. Used for fresh market and processing.



WALKER DELUXE

ASPARAGUS		M=1,000 seeds			
Priced per package		100 Seeds	500 Seeds		
Price per 1,000 seeds (M)				1M	5M 15M
13007U	Walker Deluxe untreated	13.70	57.05	99.20	86.25 75.00
Priced per package				1 oz.	4 oz. 1#
13001	Mary Washington			6.20	13.00 37.45



SYBARIS ★ pg. 7

BEANS

RUPP USE GUIDELINES

Home Garden/Farm Market varieties are considered to be high quality (gourmet). 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 and 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 ½" 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 149 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
Ae - Aphanomyces Root Rot
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
MG - Medium Green
MLG - Medium Light Green
P - Purple
VDG - Very Dark Green
Y - Yellow



BA0999



BRONCO



DARK HORSE



DESPERADO



JADE II



JUSTIFY



MOMENTUM



OUTLAW



VALENTINO

POST HARVEST FINANCING AVAILABLE

Options include 0% interest with no payments due until December 2025.

The best rates are available before 12/31/2024.

See page 155 for all of the details.

JOHN DEERE
FINANCIAL

0%

BEANS		BUSH GREEN Fresh Market						
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	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 upright plant habit. Expect a 3-4 sieve bean with improved standability that produces high-quality pods.
07033	Desperado	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	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	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	56	5 3/4"	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	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	55	5 1/2"	VDG	White	FM, S	BV, R	Sets shiny, high quality fruit even in plant's upper region.
07056	Tema	55	5"	DG	Brown	FM	BV ¹	A very high yielding, fiberless variety for fresh market.
07130	Valentino	56	5 1/2"	DG	White	S	BV, R	A shipper variety that has performed very well in trials. It is similar to Bronco in maturity with darker colored pods.

BEANS BUSH GREEN Fresh Market		M=1,000 seeds				
Price per 1,000 seeds (M)		2M	10M	20M	80M	800M*
07147	BA0999 Cruiser		4.60	4.35	4.15	3.90
07043	Bronco Cruiser	4.95	3.95	3.70	3.50	3.25
07120	Dark Horse Cruiser	5.30	4.30	4.05	3.85	3.60
07033	Desperado Cruiser	5.45	4.45	4.20	4.00	3.75
07155	Jade II Cruiser		4.15	3.90	3.70	3.45
07159	Justify Cruiser		3.35	3.10	2.90	2.65

BEANS BUSH GREEN Fresh Market		M=1,000 seeds				
Price per 1,000 seeds (M)		2M	10M	20M	80M	800M*
07124	Lynx Cruiser		4.10	3.85	3.65	
07005	Momentum Cruiser	5.40	4.40	4.15	3.95	3.70
07024	Outlaw Cruiser	5.25	4.25	4.00	3.80	3.55
07148	Sybaris Cruiser	5.40	4.40	4.15	3.95	3.70
07056	Tema Cruiser	5.45	4.45	4.20	4.00	3.75
07130	Valentino Cruiser		4.05	3.80	3.60	3.35

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



JADE ★



Cruiser®

This insecticide guards against a broad spectrum of early season sucking and chewing insect pests in beans and sweet corn. Cruiser® treated items are either highlighted in this purple color or feature the Cruiser® symbol.



BEANS

BUSH GREEN Heritage - Home Garden

Item #	▼ Variety	Days	Pod Length	Pod Color	Seed Color	Disease	Features
07007	Blue Lake 274	52	6"	DG	White	BV ¹	Popular garden variety.
07012	Contender	55	6 - 7"	MG	Mottled	BV ¹ , PM	Disease resistant variety for market or garden.
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.
07016	Provider	52	6"	MG	Brown	BV ¹ , N ¹⁵ , PM	An early home garden variety.
07048	Royal Burgundy	55	5 - 6"	P	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.
07028	Tenderette	60	5 - 6"	DG	White	BV ¹ , N ¹⁵	Excellent quality with slow seed development.
07021	Tendergreen Improved	53	5 - 6"	DG	Mottled	BV ¹	A more productive Tendergreen type.
07022	Topcrop	53	5 - 6"	MG	Brown		Canning or freezing type.

BEANS BUSH GREEN Heritage

Priced per pound in these package sizes		1#	5#	25#	50#*	500#*
07007U	Blue Lake 274 Untreated	6.05	5.05	4.80	4.65	4.50
07012U	Contender Untreated	6.00	5.00	4.75	4.60	4.45
07135	Jade	6.65	5.65	5.40	5.25	5.10
07016U	Provider Untreated	6.65	5.65	5.40	5.25	5.10
07048U	Royal Burgundy Untreated	6.15	5.15	4.90	4.75	4.60
07026U	Strike Untreated	6.10	5.10	4.85	4.70	4.55
07028U	Tenderette Untreated	6.40	5.40	5.15	5.00	4.85
07021U	Tendergreen Improved Untreated	6.05	5.05	4.80	4.65	4.50
07022U	Top Crop Untreated	6.05	5.05	4.80	4.65	4.50
Price per 1,000 seeds (M)		2M	10M	20M	80M	800M*
07015	Cabot Cruiser	6.00	5.00	4.75	4.55	4.30

* 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#
07057	Greencrop	6.65	5.65	5.35	5.15
07017U	Roma II Untreated	5.90	4.90	4.60	4.40

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





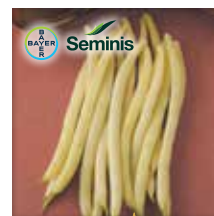
GREENCROP



DAWSON GOLD






SUNBURST



SV1003GF ★

BEANS		BUSH GREEN FLAT					Pricing on page 8	
Item #	▼ Variety	Days	Pod Length	Pod Color	Seed Color	Use	Disease	Features
Fresh Market								
07017	Roma II	58	5 ½"	MG	White	FM, HG	BV ¹ , N ¹⁵	Good flavored Romano type for home or market.
Heritage								
07057	Greencrop	56	7 - 8"	MG	White	FM, HG, P	BV	Stringless, great flavor, flat, long podded Kty Wonder type. Tolerant to Common Bean Mosaic Virus.

BEANS		YELLOW WAX						
Item #	▼ Variety	Days	Pod Length	Pod Shape	Pod Color	Seed Color	Disease	Features
Fresh Market								
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 	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 ¼"	Round	Y	White	BBS, BV	Has better color and a slightly longer pod than Gold Dust with a more upright plant. Consistent yielder.
Heritage								
08004	Cherokee	51	6"	Round	DY	Buff		A proven home garden variety.

BEANS		DRY SHELLING						
Item #	▼ Variety	Days	Seed Color	Bean Type	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 YELLOW WAX		M=1,000 seeds				
Priced per pound in these package sizes		1#	5#	25#	50#	500#
08004U	Cherokee Untreated	5.95	4.95	4.70	4.55	4.40
Price per 1,000 seeds (M)		2M	10M	20M	80M	800M*
07157	Dawson Gold Cruiser	5.75	4.75	4.50	4.30	4.05
08019	Sunburst Cruiser	5.55	4.55	4.30	4.10	3.85
08005	SV1003GF Cruiser	5.65	4.65	4.40	4.20	3.95

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

BEANS DRY SHELLING		M=1,000 seeds			
Price per 1,000 seeds (M)		2M	10M	20M	40M
09032U	Cabernet Red Kidney Untreated	5.25	4.25	4.00	3.80
09031U	Etna Cranberry Untreated	10.40	9.40	9.15	8.95
09033U	SV1893GH Navy Untreated	4.70	3.70	3.45	3.25
09034U	SV6139GR Pinto Untreated	4.95	3.95	3.70	3.50



BESWEET 292



BORSALINO

POST HARVEST FINANCING AVAILABLE

Options include 0% interest with no payments due until December 2025.


The best rates are available before 12/31/2024.

See page 155 for all of the details.



JOHN DEERE
FINANCIAL

0%

BEANS		EDIBLE SOY				
Item #	▼ Variety	Days	Height	Bean Size	Seed Color	Features
Vegetable soybeans - edamame - from Rupp Genetics are in a class of their own for table use. They produce very large beans that are high in protein and sweet if picked and preserved in the proper stage. Used primarily as a shelled green bean with eating quality superior to limas and higher protein than either peas or limas. The best flavored of all food grade soybeans.						
09025	BeSweet 292 	85	24"	1200/lb.	Yellow	The top commercial check variety for vegetable soybeans produced under license from AVRDC in Taiwan.

BEANS		FRENCH FILET						
Item #	▼ Variety	Days	Pod Length	Diameter	Pod Color	Seed Color	Disease	Features
08018	Borsalino <small>Baby Wax</small>	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.
07089	Maxibel	60	7"	1/4"	DG	Black		A selection from Vilmorin with improved pod color, stress tolerance and disease tolerance. It has straight pods and is slow to seed. Best when hand picked. Sieve size 2-3.

BEANS		GREEN RUNNER						
Item #	▼ Variety	Days	Pod Length	Pod Shape	Pod Color	Seed Color	Disease	Features
07020	State Half Runner	60	4"	Oval	LG	White		Longer and larger podded than White Half Runner.
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.
07023	White Half Runner	60	4 1/2"	Oval	LG	White		Similar to Mountaineer Half Runner.

BEANS		HORTICULTURAL <small>Heritage</small>						
Item #	▼ Variety	Days	Pod Length	Pod Shape	Pod Color	Seed Color	Use	Features
07039	Dwarf Horticultural Taylor	60	6"	Flat	GR	Buff Red	FM, HG	Thick, flat pods used early as green snaps but primarily used as green shell. Semi-runner plants. Does well in cool climates.

BEANS EDIBLE SOY

Priced per pound
in these package sizes

	1#	5#	25#	50#
09025U BeSweet 292 <small>Untreated</small>	10.50	9.50	9.25	9.00

BEANS GREEN RUNNER

Priced per pound
in these package sizes

	1#	5#	25#	50#
07020U State Half Runner <small>Untreated</small>	6.25	5.25	4.95	4.75
07118 Volunteer Half Runner	6.35	5.35	5.05	4.85
07023U White Half Runner <small>Untreated</small>	6.35	5.35	5.05	4.85

BEANS FRENCH FILET

Price per 1,000 seeds (M)

M=1,000 seeds

	2M	10M	20M	100M
08018 Borsalino	6.10	5.35	5.10	4.85
07089 Maxibel	11.00	10.25	10.00	9.75

BEANS HORTICULTURAL

Priced per pound
in these package sizes

	1#	5#	25#	50#
07039U Dwarf Horticultural Taylor <small>Untreated</small>	6.65	5.65	5.35	5.15
07031U French Horticultural <small>Untreated</small>	7.50	6.50		



ORIENT WONDER



SEYCHELLES



SAVE WITH CASH DISCOUNTS

The earlier you order the more you'll receive!

See page 154 for all of the details.

November	7%
December	6%
January	5%
February	4%
March	3%
April	2%

BEANS		POLE Heritage					
Item #	▼ Variety	Days	Pod Length	Pod Shape	Pod Color	Seed Color	Features
10002	Blue Lake Pole	63	5 - 6"	Round	DG	White	Sets pods from the base to the top of the vine producing plenty for canning. Straight, smooth, 6-inch pods are crisp and stringless at all stages.
10008	Kentucky Blue ^{PVP}	58	7 - 10"	Round	MG	White	A Kentucky Wonder - Blue Lake combination with flavor similar to Kentucky Wonder but sweeter. Earlier than Kentucky Wonder. An AAS winner.
10001	Kentucky Wonder	65	7 - 8"	Flat Oval	MG	Buff	Most popular pole variety. Good for cut beans or dry shell use.
10004	Orient Wonder ^{Yard Long}	65	15 - 18"	Long Narrow	DG	White	Popular for specialty and ethnic markets. Superior to standard strains due to its ability to set in cooler climates.
10005	Seychelles	55	6"	Round	DG	White	Does well on a 5 to 6 foot trellis. Trimming growth above top of trellis is recommended to promote larger bush habit and pod set on lower part of stem.

BEANS		BUSH LIMA Heritage				
Item #	▼ Variety	Days	Height	Seeds per Pod	Seed Color / Shape	Features
11002	Fordhook 242	75	16 - 20"	3 - 4	Cream / thick and plump	Home garden and market. Freezer type.
11003	Henderson Bush	65	16"	3 - 4	White / thick and plump	Used primarily for canning and freezing. Home garden.
11004	Thorogreen Bush	65	15 - 16"	3 - 4	Light Green / small and flat	Home garden and processing.

BEANS POLE		Priced per pound in these package sizes			
		1#	5#	25#	50#
10002U	Blue Lake Pole ^{Untreated}	8.05	7.05	6.75	6.55
10001U	Kentucky Wonder ^{Untreated}	7.85	6.85	6.55	6.35
10004U	Orient Wonder ^{Yard Long Untreated}	60.50	59.50	59.20	59.00
10005U	Seychelles ^{Untreated}	10.10	9.10	8.80	8.60
		Price per 1,000 seeds (M)			
		2M	10M	20M	80M
10008	Kentucky Blue	7.35	6.35	6.10	5.90

BEANS BUSH LIMA		Priced per pound in these package sizes			
		1#	5#	25#	50#
11002U	Fordhook 242 ^{Untreated}	6.90	5.90	5.60	5.40
11003U	Henderson Bush ^{Untreated}	6.90	5.90	5.60	5.40
11004U	Thorogreen Bush ^{Untreated}	6.90	5.90	5.60	5.40
11008U	Dixie Butterpea White ^{Untreated}	7.00	6.00	5.70	



CAMARO pg. 13

BEETS

PLANTING

Plant seed 1" apart and thin to 2" apart. Row spacing ranges from 15" - 24". Seed depth should be ¼" - ½" 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 149 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 1½" 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.



CHIOGGIA
GUARDSMARK



GOLDEN BOY



MERLIN



RED ACE



SCHRUTE



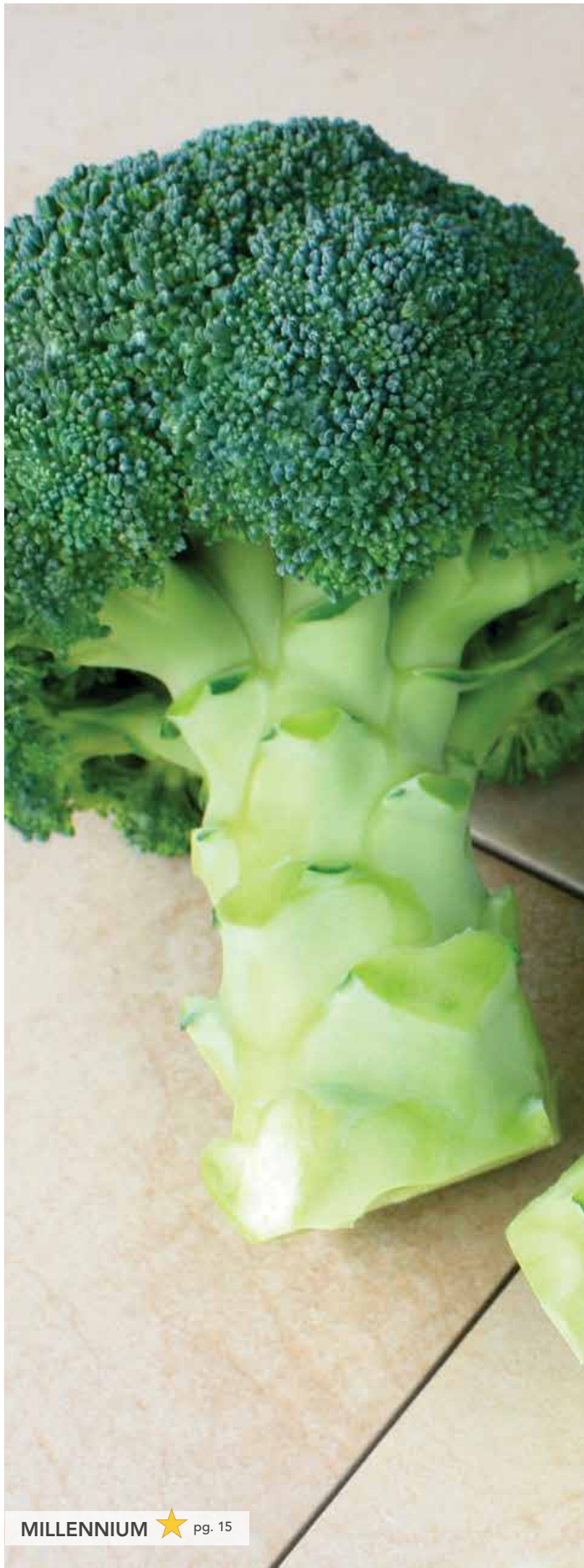
TOUCHSTONE
GOLD

BEETS				
Item #	▼ Variety	Days	Sugar	Features
Fresh Market				
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 maintains a consistent quality while offering disease and drought resistance.
14107	Lutz Green Leaf ^{Pink Stem}	63	7 - 9%	A top shaped beet with glossy, bright green leaves used for fine greens. Superior storage beet.
14011	Merlin ^{F1}	63	12 - 15%	A beet that replaces Pacemaker III with very similar qualities but more producible seed.
14002	Red Ace ^{F1}	53	12 - 15%	Early, sweet, red and resists zoning in hot weather. Excellent for garden, market or processing.
14116	Schrute ^{F1}	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	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				
14115	Bull's Blood	60	5 - 7%	An heirloom variety with deep red leaves, good flesh quality, and used primarily for its tops in baby greens mixes.
14104	Cylindra	60	5 - 7%	Unique, long cylindrical shaped beet, excellent for slicing. Up to 8" long and 1 ¾" in diameter.
14101	Detroit Dark Red	58	5 - 7%	A very popular, tender, dark red beet used by many home gardeners.
14102	Early Wonder	52	5 - 7%	A flattened, globe shaped, dark red beet. Sweet and tender.
14103	Ruby Queen	60	5 - 7%	An early, excellent quality beet for the gardener. Tender, fine grained and sweet.

BEETS		M=1,000 seeds			
Price per 1,000 seeds (M)		5M	25M	250M	1,000M
14003	Camaro	1.73	1.64	1.58	1.54
14105	Chioggia Guardsmark ^{F300}	1.82	1.73	1.67	1.63
14108	Golden Boy ^{F300}	2.60	2.51	2.45	2.41
14011	Merlin ^{F300}	1.35	1.26	1.20	1.16
14002	Red Ace ^{F300}	1.35	1.26	1.20	1.16
14116	Schrute ^{F300}	1.69	1.60	1.54	1.50
14106	Touchstone Gold ^{F300}	3.03	2.94	2.88	2.84

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

BEETS						
Priced per package		1 oz.	4 oz.			
Priced per pound						
in these package sizes				1#	5#	50#
14115U	Bull's Blood <small>Untreated</small>	3.25	11.25	30.00	29.00	28.00
14112U	Chioggia <small>Untreated</small>	3.15	10.90	29.00	28.00	27.00
14104U	Cylindra <small>Untreated</small>		4.80	12.75	12.50	12.25
14101U	Detroit Dark Red <small>Untreated</small>		4.85	12.85	12.60	12.35
14102U	Early Wonder <small>Untreated</small>		5.35	14.25	14.00	13.75
14107U	Lutz Green Leaf <small>Untreated</small>		7.50	19.95	19.70	19.45
14103U	Ruby Queen <small>Untreated</small>		4.60	12.25	12.00	11.75



MILLENNIUM ★ pg. 15

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 149 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



EASTERN CROWN



EMERALD CROWN



FORTRESS



HANCOCK



IMPERIAL



SORRENTO

BROCCOLI							
Item #	Variety	Days from Transplant***	Sowing Season	Head Size	Bead Size	Disease Code	Features
Fresh Market							
15009	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	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	Fortress ^{F1}	85***	Spring	Large	Small		A mid-late maturing, multi-use broccoli with a clean stem, which makes for an easier harvest. Pinrot [®] 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	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 anthocyanin-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.
Heritage							
15502	Waltham 29	95	Spring	Medium			Good main heads with a heavy crop of side shoots.
		*	Day length sensitive, earlier maturity when day length is longer.				
		**	Requires warmer night time temperatures to mature, growth rate dramatically slows down under cold temperatures.				
		***	Add 15-20 days for direct seeding				

BROCCOLI		M=1,000 seeds				
Price per 1,000 seeds (M)		1M	5M	25M	100M	500M*
15009	Eastern Crown	12.05	11.45	11.10	10.70	10.50
15051	Emerald Crown	10.55	9.95	9.60	9.20	9.00
15053	Fortress	11.25	10.65	10.30	9.90	9.70
15044	Green Magic	9.20	8.60	8.25	7.85	7.65
15001	Hancock	9.35	8.75	8.40	8.00	
15049	Imperial	9.85	9.25	8.90	8.50	8.30
15004	Millennium	11.15	10.55	10.20	9.80	9.60

BROCCOLI		M=1,000 seeds		
Priced per package		1 oz.	4 oz.	
Priced per pound in these package sizes				1#
15509	Sorrento ^{Broccoli Raab}	13.55	21.65	65.00
15502	Waltham 29	4.80	7.65	22.95
* 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 149 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.

CHURCHILL pg. 17



CAPITOLA



CHURCHILL



JADE CROSS
REGULAR



RED BALL

**SAVE BIG
WITH CASH
DISCOUNTS!**
See page 154

BRUSSELS SPROUTS					
Item #	▼ Variety	Days	Sprout Size	Plant Size	Features
<i>Fresh Market</i>					
16006	Capitola ^{F1}	90	1 ½"	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.
16001	Jade Cross E ^{F1}	85	¾ - 1"	28"	Produces high yields of solid deep green brussels sprouts. Compact plants are less subject to wind damage and can be sown later than other varieties. It matures well in early frost. Good disease package.
16002	Jade Cross Regular ^{F1}	85-90	¾ - 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	90	1"	38"	Specialty variety producing red sprouts which improve in color after cold weather. Best red variety available.
<i>Heritage</i>					
16501	Long Island Improved	90	¾ - 1"	24"	Popular home garden variety. Medium green sprouts.

BRUSSELS SPROUTS		M=1,000 seeds			
<i>Priced per package</i>		1 oz.	4 oz.	1#	
16501	Long Island Improved	3.65	7.30	21.95	
<i>Price per 1,000 seeds (M)</i>		1M	5M	25M	100M
16006	Capitola	27.05	26.40	26.10	25.65
16007	Churchill	15.70	15.05	14.75	14.30
16001	Jade Cross E	7.75	7.10	6.80	6.35
16002	Jade Cross Regular	11.30	10.65	10.35	9.90
16502	Red Ball	6.15	5.50	5.20	4.75



FAST VANTAGE ★ pg. 19

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

ALL-STARS ★ CABBAGE

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

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.

Grand Vantage is a great all around main season cabbage. Very good producer.

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.

Ruby Perfection has the deepest crimson color of any cabbage on the market.



Phil Ramsey
Vegetable Consultant



GREEN VOYAGER **NEW**



BLUE DYNASTY



BLUE VANTAGE ★



XTREME VANTAGE ★



GRAND VANTAGE ★



STELLAR VANTAGE ★

CABBAGE		HYBRID					
Item #	Variety	▼ Days from Transplant*	Head Weight pounds	Head Type	Color	Disease Code	Features
17069 ★	Fast Vantage	50	2 ½	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.
17021	Charmant	65	3 - 4	Round	Blue Green	TB, YR	Early, darker green, and slightly larger Stonehead type. Home garden, fresh market, and shipping.
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.
17091	Blue Dynasty	75	5	Round	Blue	BR, TB, YR	A very uniform, disease tolerant, good holding market cabbage.
17022 ★	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 ★	Xtreme Vantage	80	5 - 6	Round	Blue Green	BR, TB, YR	Very good uniformity in field. Has a good disease package.
17116 ★	Grand Vantage	85	5 - 6	Round	Blue Green	TB, YR ¹	An exciting fresh market variety with attractive green to blue-green color. Very round head 7 x 7", dense solid interior and short core. Tight wrapper leaves. Good holding ability and excellent yield.
17009 ★	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 for direct seeding.							

CABBAGE Hybrid		M=1,000 seeds				
Price per 1,000 seeds (M)		1M	5M	25M	100M	500M*
17091	Blue Dynasty	7.45	6.85	6.25	5.65	5.55
17022	Blue Vantage	6.65	6.05	5.45	4.85	4.75
17021	Charmant	7.70	7.10	6.50	5.90	5.80
17048	Cheers	8.00	7.40	6.80	6.20	6.10
17085	Emblem	6.90	6.30	5.70	5.10	5.00
17069	Fast Vantage	7.80	7.20	6.60	6.00	5.90
17116	Grand Vantage	9.35	8.75	8.15	7.55	7.45
17117	Green Voyager	7.90	7.30	6.70	6.10	6.00
17097	Platinum Dynasty	7.60	7.00	6.40	5.80	5.70
17008	Primo Vantage	8.30	7.70	7.10	6.50	6.40
17009	Stellar Vantage	7.25	6.65	6.05	5.45	5.35
17005	Stonehead	7.10	6.50	5.90	5.30	5.20
17011	Xtreme Vantage	6.55	5.95	5.35	4.75	4.65
* Multiple packages may be used to fill orders for these quantities.						



GOLDEN CROSS
IMPROVED ★



RED DYNASTY ★



SAVOY ACE
IMPROVED



RED JEWEL



RUBY PERFECTION ★



TOY CHOY

CABBAGE			SPECIALTY Hybrid				
Item #	Variety	▼ Days from Transplant*	Head Weight pounds	Head Type	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.
17004	Savoy Ace Improved	73	3 - 4	Flat Round	Dark Green		AAS winner. Superior quality savoy type with a medium large head.
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.
17003 ★	Ruby Perfection	86	3 - 4	Round	Purple Red		Deepest red colored cabbage. Uniform 3 - 4 pound head for home garden or market.
* Add 10-15 days for direct seeded							

CABBAGE			HERITAGE OP				
Item #	Variety	▼ Days from Transplant*	Head Weight pounds	Head Type	Color	Disease Code	Features
17503	Early Jersey Wakefield	62	2 - 3	Pointed	Dark Green		Excellent flavor makes it a popular variety for the home garden.
17502	Golden Acre	63	3	Round	Green	YR	The most popular early home garden variety.
17509	Copenhagen Market	75	3 - 4	Round	Medium Green		Uniform, good keeping variety suitable for home garden.
17507	Red Acre	80	3	Round	Red		Popular home garden variety.
17512	Early Flat Dutch Brunswick	88	6 - 8	Flat Round	Dark Green		Popular home garden variety.
17501	Danish Ballhead	100	5 - 7	Round	Blue Green		Excellent for all purposes, especially good for sauerkraut.
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 for direct seeding.							

CABBAGE			CHINESE TYPES 🏡				
Item #	Variety	▼ Days from Transplant*	Head Weight pounds	Head Type	Color	Disease Code	Features
Fresh Market							
18010	Blues ^{F1}	57	4 - 5	Napa	Green	ALS, BS, DM	Extra slow bolting, high disease tolerance, superior performance in spring or early fall.
18017	Yuki ^{F1}	67	4 - 5	Napa	Green	BS, CR, TB	Yuki is a medium maturing, China Pride type hybrid. Good uniformity and size.
18012	Monument ^{F1}	80	4	Michihli	Green		Bright green, cylindrical shape with long shelf life.
Heritage Varieties							
18001	Michihli	75	5 - 6	Michihli	Green		Popular variety used in the home garden for many years.
* Add 10-15 days for direct seeded							

CABBAGE		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.
49007	Mei Qing Choi ^{F1}	35 - 40	Celery	Green	The first hybrid green-petiole Pak Choi. More vigorous early growth. Smaller stalk than Joi Choi. More suitable for market, but somewhat more difficult to grow. Type known by both Japanese and Chinese.
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.
18005	Pak Choi	55	Celery	White	The variety of white celery mustard popular in both China and the U.S. Sow in spring, summer and fall.

CABBAGE SPECIALTY Hybrid		M=1,000 seeds				
Price per 1,000 seeds (M)		1M	5M	25M	100M	500M
17002	Genesee ^{Vestri}	15.70	15.10	14.50	13.90	13.80
17098	Golden Cross Imp.	9.25	8.65	8.05	7.45	7.35
17082	Huron	14.40	13.80	13.20	12.60	12.50
17012	Promise	17.55	16.95	16.35		
17090	Red Dynasty	11.10	10.50	9.90	9.30	9.20
17070	Red Jewel	10.90	10.30	9.70	9.10	9.00
17003	Ruby Perfection	11.40	10.80	10.20	9.60	9.50
17004	Savoy Ace Improved	12.75	12.15	11.55	10.95	10.85
17041	Savoy King	11.60	11.00	10.40	9.80	9.70

CABBAGE CHINESE		M=1,000 seeds			
Priced per package		1 oz.	4 oz.	1#	
18001	Michihli	3.70	8.65	17.25	
Price per 1,000 seeds (M)		1M	5M	25M	100M
18006	Apollo	4.45	3.85	3.55	2.95
18010	Blues	4.45	3.85	3.55	2.95
18012	Monument	4.40	3.80	3.50	2.90
18017	Yuki	5.80	5.20	4.90	4.30

CABBAGE OP		M=1,000 seeds		
Priced per package		1 oz.	4 oz.	1#
17509	Copenhagen Market	6.20	9.45	18.75
17501U	Danish Ballhead ^{Untreated}	7.45	11.35	22.55
17512	Early Flat Dutch Brunswick	6.20	9.45	18.75
17503	Early Jersey Wakefield	6.20	9.45	18.75
17502	Golden Acre	6.20	9.45	18.75
17508	Late Flat Dutch	6.20	9.45	18.75
17507	Red Acre	7.45	11.35	22.55

CABBAGE CHINESE Pak-Choi		M=1,000 seeds			
Priced per package		1 oz.	4 oz.	1#	
18005	Pak Choi	4.75	11.15	22.25	
Price per 1,000 seeds (M)		1M	5M	25M	100M
49012	Joi Choi	5.10	4.50	4.20	3.60
49007	Mei Qing Choi	5.10	4.50	4.20	3.60
49013	Toy Choy	4.10	3.50	3.20	2.60

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/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/MAVR

The 2022/ 2023 edition of the Mid-Atlantic Commercial Vegetable Production Recommendations.



www.ruppseeds.com/MSUipm

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



www.ruppseeds.com/PSUsoil

Penn State University offers soil test recommendations for commercial vegetables.



www.ruppseeds.com/NCShort

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



www.ruppseeds.com/uoiVeg

University of Illinois Extension Vegetable Gardening Basics.



www.ruppseeds.com/PSUext

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



CARROTS

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 ¼" - ½" deep and 15" between rows. Using seed tapes or pelleted seed will help prevent over seeding.

See "Germination Chart" on page 149 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 through soil crusting which in turn helps the carrots emerge.

HARVEST

Fresh market carrots are harvested when they are ¾" - 1½" in diameter.

STORAGE

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

BOLERO pg. 23



BENGALA



GOLD NUGGET



MUSICO



OLYMPUS



VIPER



RAINBOW BLEND

CARROTS		HYBRID				
Item #	▼ Variety	Maturity	Size	Type	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.

CARROTS		OP				
Item #	▼ Variety	Maturity	Size	Type	Interior	Features
19501	Chantenay Red Cored	Late	6 - 7"	Chantenay	Red / Orange	An old favorite for processing.
19502	Danver's 126	Late	7"	Danvers	Orange	A strain selected for good interior color. A solid yielder even in heavy soils.
19503	Imperator 58	Medium	7 - 9"	Imperator	Orange	A long, fresh use type carrot for lighter soils.
19505	Little Finger	Early	3 - 4"	Baby	Bright Orange	Used for baby carrots.
19506	Rainbow Blend	60	7 - 10"	Imperator	Red, White, Purple and Yellow	Bring color to your CSA with this colorful mixture of four varieties for either baby or large carrots.
19504	Scarlet Nantes	Early	5 - 6"	Nantes	Orange	Fine qualities. May be used for fresh market, processing, or finger carrots.

CARROTS Hybrid		M=1,000 seeds			
Price per 1,000 seeds (M)		10M	100M	1,000M	5,000M
19034	Bengala	1.23	0.88	0.83	0.80
19032	Bolero	1.68	1.33	1.28	1.25
19026	Enterprise	1.11	0.76	0.71	0.68
19014	Gold Nugget	1.78	1.43	1.38	1.35
19006P	Musico Pelleted	1.78	1.43	1.38	1.35
19007P	Olympus	1.35	1.00	0.95	0.92
19009	Viper	1.27	0.92	0.87	0.84

CARROTS OP		Priced per package			
Priced per pound in these package sizes		1 oz.	4 oz.	1#	5#
19501U	Chantenay Red Cored Untreated	5.00	7.95	21.00	20.50
19502U	Danver's 126 Untreated	5.00	7.95	21.00	20.50
19503U	Imperator 58 Untreated	5.00	7.95	21.00	20.50
19505U	Little Finger Untreated	5.35	8.55	22.50	22.00
19506U	Rainbow Blend Untreated	26.85	43.60	113.00	112.50
19504U	Scarlet Nantes Untreated	5.00	7.95	21.00	20.50



TWISTER ★ pg. 25

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 149 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





MINUTEMAN ★



DEPURPLE



SYNERGY ★



FLAME STAR



SHAKARIS ★



CHEDDAR

CAULIFLOWER							
Item #	Variety	▼Days from Transplant	Head Type	Plant Size	Self Wrapping	Sowing Season	Features
20015 ★	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.
20001	Snow Crown ^{F1}	63	Semi Dome	Medium	Poor	Spring, Summer	For spring or fall crops in the Midwest. Good uniformity, consistent performer.
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 ★	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 ★	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 processing markets.
20006 ★	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.
20501	Snowball Y Improved	82	Domed	Large	Poor	Spring, Fall	Widely adapted, for bedding plants and home garden use.
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 ^{F1}	85 - 90	Domed	Medium, Erect	Fair	Spring, Summer	A unique deep purple hybrid from Syngenta which needs sunlight to obtain full color. Works well raw or steamed - add a small amount of lemon juice when cooking to retain the color.

CAULIFLOWER				M=1,000 seeds			
Priced per package				1 oz.	4 oz.	1#	
20501U	Snowball Y Improved	Untreated		6.60	17.50	50.00	
Priced per package			250 Seeds				
Price per 1,000 seeds (M)			1M	5M	25M	100M	500M*
20021	Cheddar	26.30	80.85				
20013	DePurple	30.00	92.30	91.30	90.30	89.30	89.05
20014	Flame Star	30.00	92.30	91.30	90.30	89.30	89.05
20020	Freedom	12.45	38.30	37.30	36.30	35.30	35.05
20025	Graffiti	30.00	92.30	91.30	90.30		
20015	Minuteman		Crop Failure				
20006	Shakaris	19.55	18.90	18.45	18.00	17.90	
20001	Snow Crown	15.85	15.20	14.75	14.30	14.20	
20009	Synergy	20.65	20.00	19.55	19.10	19.00	
20003	Twister	18.05	17.40	16.95	16.50	16.40	
* Multiple packages may be used to fill orders for these quantities.							

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



HUDSON



VICTORIA



FLASH

GEORGIA OR
SOUTHERN

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.
21002	Tall Utah Celery ^{52-70R Improved}	Medium	Medium Green	25"	14"	An improved 52-70, more refined, excellent yield and resists bolting under adverse conditions.
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

Item #	▼ Variety	Days	Features
22503	Flash ^{F1}	73	A vigorous, fancy, uniform, very slow bolting hybrid that offers growers an earlier Vates type.
22002	Georgia or Southern	80	A large, blue-green leaf variety very popular in the home garden.
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 seeds

Priced per package		1 oz.	4 oz.	1#
21002U	Tall Utah Celery ^{Untreated}	6.15	18.15	58.00
Price per 1,000 seeds (M)		1M	10M	25M
21003P	Hudson ^{Pelleted}	7.35	6.90	6.55
21001P	Victoria ^{Pelleted}	7.35	6.90	6.55

COLLARDS

Priced per package		1 oz.	4 oz.		
Priced per pound in these package sizes				1#	5#
22503	Flash	50.60	144.45	428.00	427.00
22002U	Georgia or Southern ^{Untreated}	5.70	18.70	18.45	
22501	Top Bunch 2.0	51.65	147.50	437.00	436.00

HIGH TUNNEL & PROTECTED CULTURE INDEX

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Chioggia Guardsmark 13	Kohlrabi 67	S	Roadster 134
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C	P	T	Home Garden / Bedding
Cabbage	Peppers	Tomato	Better Boy Plus 131
Chinese 20	Bell	Cherry	Big Beef 131
Cauliflower 25	Green to Red	Chocolate Sprinkles 135	Big Beef Plus. 131
Collards 26	Sprinter.86	Gold Spark 135	Celebrity Plus 131
Cucumbers	Other Colors	Ruby Crush 135	Early Girl 131
Protected Culture 53	Milena87	Sweet Hearts. 135	Early Girl Plus 131
G	Peppers Yellow	Tidy Treats 135	Lemon Boy Plus 132
Greens. 61	Abay87	Fresh Market	Pink Delicious 132
	Dicaprio87	BHN-871 133	RuBee Dawn 132
	Miscellaneous Sweet.88	Carolina Gold 133	RuBee Goddess 132

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 hand-pollinate or purchase pollinators for release in the high tunnel. Contact Koppert Biological at 810-632-8750 or www.ruppseeds.com/KoppertUS 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.40

CORN (Sweet)

PLANTING

Plant seeds 8 - 12 inches apart on 30 inch rows to achieve optimum yield. Seed depth should be ¾" - 1½" 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 149 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 "Managing Insects in Sweet Corn" on page 39. Also take a look at our "Insect Scouting Resources" on page 39. For GMO and non-GMO corns, 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. www.ruppseeds.com/MVPG

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 and 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	DISEASE RATINGS	USE CODES
MDM - Maize Dwarf Mosaic	R - Resistant	FM - Fresh Market
NLB - Northern Leaf Blight	M - Moderately Resistant	HG - Home Garden
SLB - Southern Leaf Blight	MS - Moderately Susceptible	P - Processing
	S - Susceptible	S - Shipping

GROWER PREFERRED ALL-STARS ★ CORN

PERFORMANCE SERIES

SV9010SA (BC SH2 page 32) 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 32) 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 34) 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 34) 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 44) In trial after trial, it has proven itself to be exceptional on every level.

Glacial (WH SH2 page 44) 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 46) has exceptional eating quality and is part of IFST'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 40) 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 40) - 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 42) - 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 positive on both eating quality and yield.

Signature XR (BC SH2 page 40) - 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

SH2 / IMPROVED SUPER SWEETS CONTINUED

Solstice (BC SH2 page 40) - 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 40) 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 40) 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 37) 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 37) 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.

Illusion (WH SYN page 43) is an early season white variety to compare with Whiteout. It has great flavor and eating quality and does well on roadside markets.

Mirage (WH SYN page 43) 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 37) 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 38) is our #1 selling bi-color Synergistic. It's the roadside growers choice for consistent sweetness and overall quality.

Temptress (BC SYN page 37) 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 and 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 149.

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

- Shrunk (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 ★★★★★

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.

SWEET CORN MATURITY INDEX

BI-COLOR	▼ Relative Maturity	Genetic Type	Page #
Catalyst XR	66	Improved Super Sweets	40
Bolt XR	67	Improved Super Sweets	40
Fastlane	67	SE	36
Latte	68	Synergistic	37
QuickStart	68	Synergistic	37
Sweetness	68	Synergistic	37
Kickoff XR	69	Improved Super Sweets	40
Solstice	70	Improved Super Sweets	40
Temptress	70	Synergistic	37
Hero XR	71	Improved Super Sweets	40
Xtra Tender 274A	71	Improved Super Sweets	40
Ignition	72	Improved Super Sweets	40
Profit	72	Synergistic	37
Quick Trip	72	Synergistic	34
Signature XR	72	Improved Super Sweets	40
Temptation	72	SE	36
Temptation II	72	SE	32
Anthem XR	73	Improved Super Sweets	40
Cappuccino	73	Synergistic	37
Anthem XR II	74	SH2	32
Superb MXR	74	Improved Super Sweets	40
Tiger Shark II	74	SH2	32
Xanadu	74 - 75	Improved Super Sweets	40
Allure	75	Synergistic	37
Ambrosia	75	SE	36
Butter & Sugar	75	SU Normal	36
Luscious	75	SE	36
Nirvana	75	Improved Super Sweets	40
Nectar	76	Synergistic	37
Revision	76 - 78	Synergistic	34
Tempo XR	76	Improved Super Sweets	40
Troubadour XR	76	Improved Super Sweets	40
American Dream	77	Improved Super Sweets	41
Cumberland	77	Improved Super Sweets	41
AP358	78	Improved Super Sweets	41
Cadence XR	78	Improved Super Sweets	41
Cosmic	78	Improved Super Sweets	42
Crave	78	Improved Super Sweets	42
Elysian	78	Improved Super Sweets	42
Essence	78	Synergistic	37
Matriarch	78	SH2	34
Octane	78	Improved Super Sweets	42
SV9014SB	78	Synergistic	32
Enchanted	79	Improved Super Sweets	42
Montauk	79	Synergistic	37
Obsession	79	SH2	42
Patriarch	79	SH2	34
7143 <small>EX08767143</small>	80	SH2	42
BSS 0761	80	SH2	34
Obsession II	80	SH2	32
Precious Gem	80	SE	36
Skyray	80	Improved Super Sweets	42
Stamina MXR	80	Improved Super Sweets	42
BC 0528	81	Synergistic	34

BI-COLOR	▼ Relative Maturity	Genetic Type	Page #
Primus	81	Synergistic	38
SV9010SA	81	SH2	32
BC 0805	82	Synergistic	34
Jackpot	82	SE	36
Providence	82	Synergistic	38
Remedy	82	Synergistic	34
Serendipity	82	Synergistic	38
Peaches & Cream EH	83	SE	36
Delectable	84	SE	36
Honey & Cream	84	SU Normal	36

WHITE	▼ Relative Maturity	Genetic Type	Page #
Leadoff MXR	69	Improved Super Sweets	44
Illusion	72	Synergistic	43
Xtra Tender 372A	72	SH2	44
Freedom MXR	73	Improved Super Sweets	44
Eden RMN	74	Improved Super Sweets	44
7401 Imp	75	Improved Super Sweets	44
Diamond Mine	76	Synergistic	43
Glacial	76	Improved Super Sweets	44
Mirage	78	Synergistic	43
Starfighter II	79	SH2	32
SV1580SC	79	SH2	44
Mattapoisett	80	Synergistic	43
Avalon	82	Synergistic	43
Milky Way	82	Synergistic	34
Silver King	82	SE	43
Silver Queen	88	SU Normal	42

YELLOW	▼ Relative Maturity	Genetic Type	Page #
Early Sunglow	62	SU Normal	44
Café	68	Synergistic	45
Takeoff MXR	69	Improved Super Sweets	46
Equinox	70	Improved Super Sweets	46
Icon XR	72	Improved Super Sweets	46
Inferno	74	Synergistic	45
Bodacious RM	75	SE	45
Gold Nuggets	75	SE	45
Golden Halo	75	Improved Super Sweets	46
SS7403RY	75	Improved Super Sweets	46
Gold Standard	76	Synergistic	45
Crown	78	SH2	34
Honey Select	79	Synergistic	45
Kandy Korn EH	81	SE	45
Passion II	81	SH2	32
SC1336	81	SH2	46
SV9012SD	83	SH2	32
NK 199	84	SU Normal	44
Illini Xtra Sweet	85	SH2	46
Incredible R/M	85	SE	45
lochief	87	SU Normal	44



TEMPTATION II



ANTHEM XR II



TIGER SHARK II



STARFIGHTER II



OBSSESSION II



PASSION II



SV9010SA ★



SV9012SD



SV9014SB ★



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/sweet-corn-guide>

CORN		PERFORMANCE SERIES™				Can be sprayed with Roundup Agricultural herbicide.				
Item #	Variety	Relative Maturity	Color	Ear Size length x diameter	Kernel Rows	Rust	NLB	Use	Eating Quality	Features
SE										
02138	Temptation II	72	Bi-Color	7 1/2 - 8 x 1.9"	16 - 18	M	M	FM	**	Compare to Temptation. Has excellent cold soil tolerance for first or second early plantings.
SH2										
03132	Anthem XR II	74	Bi-Color	8 x 1.8"	14 - 18	R	-	FM, S	****	Eating quality and rust protection of Anthem XR along with added benefits of Roundup Ready and BT traits found in Performance Series sweetcorn. Not recommended for first early planting.
03134	Tiger Shark II	74	Bi-Color	7 1/2 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 and offers Northern Leaf Blight protection.
03080	Obsession II	80	Bi-Color	8 - 8 1/2 x 1.8"	16 - 20	M	M	FM, S	***	Compare to Obsession. Straight SH2 type that eats very similar to many improved supersweets. High-end yields.
03082	Passion II	81	Yellow	8 x 1.7"	18 - 20	M	S	FM, S	***	Compare to Passion. High quality SH2 with excellent shipping ability. A yellow version of Obsession.
03084	★ SV9010SA	81	Bi-Color	8 x 1.9"	18 - 20	R	M	FM, S	***	Compare to 7143. Improved version of Obsession with 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 better tip cover.
Synergistic										
04026	★ SV9014SB	78	Bi-Color	7.8 x 1.9"	18 - 20	R	M	FM	****	Maintains the same great taste and eating quality of other high quality synergistic varieties.
Performance Series™ sweet corn varieties are the only fresh market sweet corn products featuring the unique weed control benefits of Roundup WeatherMAX® and Roundup PowerMAX® agricultural herbicides. Be sure to read the label and confirm that the chemical you are spraying is 100% glyphosate with no other active ingredients.										



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

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.

Key Management Practices to Maximize Quality and Yield:

- Scouting for Corn Earworm 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

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 www.ruppseeds.com/Agcelerate or call 1-866-784-4630 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.

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

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 SERIES™		M=1,000 seeds		
Price per 1,000 seeds (M)		2.5M	25M	100M
SE				
02138	Temptation II Bi-Color Cruiser		17.40	17.40
SH2				
03132	Anthem XR II Bi-Color Cruiser	20.80	19.61	19.61
03080	Obsession II Bi-Color Cruiser	20.90	19.71	19.71
03082	Passion II Yellow Cruiser		19.32	19.32
03125	Starfighter II White Cruiser		19.13	19.13
03084	SV9010SA Bi-Color Cruiser	21.00	19.81	19.81
03086	SV9012SD White Cruiser		19.05	19.05
03134	Tiger Shark II Bi-Color Cruiser		19.52	19.52
Synergistic				
04026	SV9014SB Bi-Color Cruiser	18.80	17.69	17.69



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. <http://www.syngenta-us.com/crop-protection/seed-treatment/products>



Cruiser® treated items are highlighted in purple in the price tables.

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

INSECT RESISTANCE // HERBICIDE TOLERANCE

	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 Pests				
Southwestern Corn Borer	X		X	X
Sugarcane Corn Borer	X		X	X
Common Stalk Corn Borer	X		X	X
Southern Cornstalk Corn Borer	X		X	X
Beet Armyworm			X	X
Dingy Cutworm			X	X
Western Bean Cutworm			X	X
Additional Below-Ground Pests				
Western Corn Rootworm	X			
Northern Corn Rootworm	X			
Mexican Rootworm	X			
Protein	Cry1A.105, Cry2Ab	Cry1Ab	Vip3A, Cry1Ab	Vip3A, Cry1Ab
Herbicide Tolerance	Glyphosate	Glufosinate	Glufosinate	Glufosinate

* Depending on ear worm population [flight counts] additional scouting and spraying may be needed. Learn more by reading "Managing Insects in Sweet Corn" on page 39.

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



BC 0528



BC 0805



CROWN



PATRIARCH



BSS 0761



MILKY WAY ★

CORN		ATTRIBUTE® Insect Protection					Can be sprayed with glufosinate herbicide.			
Item #	Variety	Relative Maturity	Color	Ear Size length x diameter	Kernel Rows	Rust	NLB	Use	Eating Quality	Features
<i>Synergistic</i>										
04207	BC 0528	81	Bi-color	8 ¼ x 1.9"	16 - 18	-	-	FM, HG	****	Bt version of Primus.
04019	BC 0805	82	Bi-color	8 x 1.9"	16 - 18	R	S	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) herbicides. Be sure to read the label and confirm that the chemical you are spraying is 100% glufosinate with no other active ingredients.										

CORN		ATTRIBUTE® PLUS Insect Protection					Can be sprayed with glufosinate herbicide.			
Item #	Variety	Relative Maturity	Color	Ear Size length x diameter	Kernel Rows	Rust	NLB	Use	Eating Quality	Features
<i>SH2</i>										
03230	Crown	78	Yellow	8 x 2"	16	R	-	FM, S	*****	An Attribute Plus that is a strong uniform plant with uniform ears.
03108	Patriarch	79	Bi-color	8 x 2"	16	R	-	FM, S	****	Augmented supersweet variety with excellent adaptability. Possesses girthy ear with great tip fill. Robust Attribute Plus package.
03101	BSS 0761	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.
<i>Synergistic</i>										
04042	★ 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.
Attribute® varieties are resistant to Liberty herbicides. They may be sprayed with conventional corn herbicides as well as Liberty (glufosinate) herbicides. Be sure 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.			
Item #	Variety	Relative Maturity	Color	Ear Size length x diameter	Kernel Rows	Rust	NLB	Use	Eating Quality	Features
<i>SH2</i>										
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.
<i>Synergistic</i>										
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	***	Attribute II, TripleSweet, Remedy replacement.
04043	Remedy &	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.
Attribute II® varieties may be sprayed with conventional corn herbicides or either Liberty (glufosinate) herbicides and glyphosate herbicides. Be sure to read the label and confirm that the chemical you are spraying is 100% glufosinate or 100% glyphosate with no other active ingredients.										



MATRIARCH ★



QUICK TRIP



REVISION



REMEDY

**SAVE BIG
WITH CASH
DISCOUNTS!**
See page 154



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 above-ground 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.

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 varieties, offers excellent control of key yield-robbing insects including European corn borer, corn earworm and fall armyworm and Western bean cutworm. Attribute II* varieties may be sprayed with conventional corn herbicides or either Liberty (glufosinate) herbicides and glyphosate herbicides.

Additional information on the Attribute products can be found at the following link: www.ruppseeds.com/Attribute

Attribute® is a registered trademark of a Syngenta Group Company. LibertyLink®, Liberty® and the Water Droplet logo are registered trademarks of Syngenta.

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.

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The Attribute Grower Stewardship Agreement can be found on page 167. You may also obtain your Attribute license by visiting www.ruppseeds.com/Agcelerate.

CORN ATTRIBUTE® Insect Protection		M=1,000 seeds	
Price per 1,000 seeds (M)		25M	100M
Synergistic			
04207 BC 0528 Bi-Color Cruiser		16.18	16.18
04019 BC 0805 Bi-Color Cruiser		15.57	15.57

CORN ATTRIBUTE PLUS® Insect Protection		M=1,000 seeds	
Price per 1,000 seeds (M)		2.5M	25M 100M
SH2			
03101 BSS 0761 Bi-Color Cruiser		18.56	18.56
03230 Crown Yellow Cruiser		21.70	20.45 20.45
03108 Patriarch Bi-Color Cruiser		19.85	19.85
Synergistic			
04042 Milky Way White Cruiser		21.15	19.95 19.95

CORN ATTRIBUTE II® Insect Protection		M=1,000 seeds		
Price per 1,000 seeds (M)		2.5M	25M	100M
SH2				
03225 Matriarch Bi-Color Cruiser		21.75	20.48	20.48
Synergistic				
04055 Quick Trip Bi-Color Cruiser		21.35	20.11	20.11
04043 Remedy Bi-Color Cruiser		21.30	20.08	20.08
04057 Revision Bi-Color Cruiser		21.30	20.08	20.08



Cruiser® This insecticide guards against a broad spectrum of early season sucking and chewing insect pests in beans and sweet corn. Cruiser® treated items are either highlighted in this purple color or feature the Cruiser® symbol.





FASTLANE



TEMPTATION



AMBROSIA



LUSCIOUS TSW



PRECIOUS GEM



CORN		BI-COLOR SU Normal					
Item #	Variety	▼ Relative Maturity	Ear Size length x diameter	Kernel Rows	Use	Eating Quality	Features
01102	Butter & Sugar	75	7 x 1.8"	14	HG	*	Home garden.
01103	Honey & Cream	84	7 x 1.7"	12 - 14	HG	*	Mid-season, home garden.

CORN BI-COLOR SU Normal					
Priced per pound in these package sizes					
	1#	5#	25#	50#	100#*
01102 Butter & Sugar	15.25	14.00	13.65	13.25	12.95
01103 Honey & Cream	16.85	15.60	15.25	14.85	14.55

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

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-COLOR SE								
Item #	Variety	▼ Relative Maturity	Ear Height	Ear Size length x diameter	Kernel Rows	Rust	NLB	Use	Eating Quality	Features
02189	Fastlane	67	14"	7 x 1.7"	14 - 16	M	S	FM, HG	**	A first early variety with good cold soil vigor, very attractive ear.
02137	Temptation	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	M	FM, HG	***	A bi-color version of Bodacious with good vigor.
02178	Luscious	75	15"	8 x 1.9"	16 - 18	M	M	FM, HG	***	A hybrid that produces an attractive blunt ear on an excellent plant package.
02144	Precious Gem	80	20"	8 ½ x 2"	16 - 18	M	M	FM, HG	**	A tender, tasty hybrid with good ear appearance. An easy snapper with good disease tolerance.
02150	Jackpot	82	20"	8 ½ x 1.9"	16 - 18	R	M	FM, HG	**	A proven hybrid with good disease resistance and tip fill.
02109	Peaches & Cream EH	83	26"	8 x 1.8"	16 - 18	S	M	HG	**	A popular home garden hybrid.
02132	Delectable	84	26"	9 x 2.1"	18	M	M	FM, HG	****	Bi-color version of Incredible. Large ear, dark green husk.

CORN BI-COLOR SE						M=1,000 seeds
Priced per pound in these package sizes						
	1#	5#	25#	50#	100#*	
02126 Ambrosia	20.90	19.65	19.30	18.90	18.60	
02132 Delectable	20.85	19.60	19.25	18.85	18.55	

CORN BI-COLOR SE						M=1,000 seeds
Price per 1,000 seeds (M)						
	2.5M	10M	25M	100M	500M*	
02189 Fastlane <small>Cruiser</small>	10.85	10.10	9.65	9.20	9.10	
02150 Jackpot	7.50	6.75	6.30	5.85	5.75	
02178 Luscious <small>Cruiser</small>	7.80	7.05	6.60	6.15	6.05	
02109 Peaches & Cream EH <small>Cruiser</small>	7.75	7.00	6.55	6.10	6.00	
02144 Precious Gem <small>Cruiser</small>	10.15	9.40	8.95	8.50	8.40	
02137 Temptation <small>Cruiser</small>	10.15	9.40	8.95	8.50	8.40	

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



LATTE



QUICKSTART



SWEETNESS



TEMPTRESS★



PROFIT



CAPPUCCINO★



ALLURE★



NECTAR



ESSENCE



MONTAUK★

ORDERS
OVER \$350
ARE SHIPPED
FREE!

CORN		BI-COLOR Synergistic - plant them with SE's							Pricing on page 38	
Item #	Variety	Relative Maturity	Ear Height	Ear Size length x diameter	Kernel Rows	Rust	NLB	Use	Eating Quality	Features
04032	Latte	68	20"	7 1/2 - 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	M	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	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	70	16"	7 3/4 x 2"	14 - 16	R	M	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	72	22"	8 x 1.8"	14	M	M	FM, HG	***	A proven variety with a track record of satisfying customers, Profit has very large ears with attractive flags, good husk cover and tip fill.
04044	★ Cappuccino	73	17"	7 1/2 - 8 x 1.9"	16	M	M	FM, HG	***	Superb eating quality. Plant mid to late season or for rain gap filler. Excellent disease package.
04009	★ Allure	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	76	18"	8 1/4 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	78	18"	8 x 1.8"	16 - 18	M	M	FM	****	Excellent eating quality. High row count for a refined kernel. Compare to Providence with earlier maturity.
04021	★ Montauk	79	18"	8 x 1.8"	16 - 20	S	M	FM	****	A widely adapted hybrid with good vigor, high yields and excellent flavor.
More varieties on the next page -->										



PRIMUS



PROVIDENCE ★



SERENDIPITY



SAVE WITH CASH DISCOUNTS

The earlier you order the more you'll receive!

See page 154 for all of the details.

November	7%
December	6%
January	5%
February	4%
March	3%
April	2%

CORN		BI-COLOR Synergistic - plant them with SE's								
Item #	Variety	Relative Maturity	Ear Height	Ear Size length x diameter	Kernel Rows	Rust	MLB	Use	Eating Quality	Features
04210	Primus	81	18"	8 x 2"	14 - 16	M	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	82	18"	8 ½ x 1.9"	16 - 18	R	S	FM	****	A rust resistant version of Serendipity with excellent eating quality.
04013	Serendipity	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.

CORN BI-COLOR Synergistic		M=1,000 seeds				
Price per 1,000 seeds (M)		2.5M	10M	25M	100M	500M*
04009	Allure Cruiser	14.25	13.50	13.05	12.60	12.50
04044	Cappuccino Cruiser	13.95	13.20	12.75	12.30	12.20
04039	Essence Cruiser	14.20	13.45	13.00	12.55	12.45
04032	Latte Cruiser	14.35	13.60	13.15	12.70	12.60
04021	Montauk Cruiser	13.30	12.55	12.10	11.65	11.55
04052	Nectar Cruiser	13.55	12.80	12.35	11.90	11.80
04210	Primus Cruiser	13.60	12.85	12.40	11.95	11.85

CORN BI-COLOR Synergistic		M=1,000 seeds				
Price per 1,000 seeds (M)		2.5M	10M	25M	100M	500M*
04214	Profit Cruiser	13.15	12.40	11.95	11.50	11.40
04014	Providence Cruiser	10.80	10.05	9.60	9.15	9.05
04020	QuickStart Cruiser	13.60	12.85	12.40	11.95	11.85
04013	Serendipity Cruiser	9.90	9.15	8.70	8.25	8.15
04047	Sweetness Cruiser	13.35	12.60	12.15	11.70	11.60
04049	Temptress Cruiser	13.45	12.70	12.25	11.80	11.70

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

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.



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 39. 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/sweet-corn-guide>



CATALYST XR



BOLT XR



KICKOFF XR ★




SOLSTICE ★



HERO XR



XTRA TENDER ★
274A

CORN		BI-COLOR SH2 and Improved Super Sweets								Pricing on page 41	
Item #	Variety	▼ Relative Maturity	Ear Height	Ear Size length x diameter	Kernel Rows	Rust	NLB	Use	Eating Quality	Features	
03117	Catalyst XR 	66	27"	8 x 1.75"	16-18	R	-	FM, S	**	LIMITED SUPPLY Catalyst XR is the earliest supersweet on the market. Has admirable ear size, tip fill, kernel color and sweetness. Tolerant to HPPD/ALS.	
03245	Bolt XR 	67	16"	7.25 x 1.8"	14-18	R	M	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 	69	28"	8 ¼ x 1.9"	16-18	M	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 	70	20"	7.5 x 1.8"	16	-	M	FM	*****	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.	
03037	Hero XR 	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 protection. Tolerant to HPPD/ALS.	
03233	Ignition 	72	23"	8" x 1.8"	16 - 18	IR	IR	FM, HG	****	Ignition is a 72 day bi-color with strong cold soil emergence, a tender bite and consistent high yield potential with a high quality ear.	
03215	★ Signature XR 	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 	73	24"	8 x 1.8"	16 - 20	R	M	FM, S	***	Excellent yield potential and better than average lodging tolerance. Superb eating quality. Great all season long.	
03246	Superb MXR 	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	M	R	FM, HG	*****	Combination of great vigor and emergence along with fantastic flavor and texture.	
03123	Troubadour XR 	76	27"	8 x 2"	16-18	R	MS	FM, HG	*****	Has excellent husk protection and exceptional eating quality.	
03122	Tempo XR 	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 -->											



IGNITION



SIGNATURE XR ★



ANTHEM XR

Stronger Plants, Higher Ears, Better Vigor, Improved Disease Package.

EDEN Pg 44

ELYSIAN Pg 42

EQUINOX Pg 46

GOLDEN HALO Pg 46

NIRVANA Pg 40

SOLSTICE Pg 40

XANADU Pg 40



SUPERB MXR



XANADU ★



NIRVANA ★



TROUBADOUR XR



TEMPO XR



CADENCE XR

CORN		BI-COLOR SH2 and Improved Super Sweets								
Item #	Variety	Relative Maturity	Ear Height	Ear Size length x diameter	Kernel Rows	Rust	NLB	Use	Eating Quality	Features
03058	American Dream	77	26"	7 1/2 x 2"	16-18	R	M	FM, HG	****	Trim ear with extraordinary tip fill. Eats exceptionally well. Beautiful flag leaves for improved marketability. An AAS winner.
03102	Cumberland	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	AP358	78	20"	8 x 1.9"	16-18	M	M	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 Sweet & Improved Super Sweets						
Price per 1,000 seeds (M)		2.5M	10M	25M	100M	500M*
03199	7143 EX08767143 Cruiser	12.45	11.70	11.25	10.80	10.70
03058	American Dream Cruiser	15.15	14.40	13.95	13.50	13.40
03003	Anthem XR Cruiser	14.65	13.90	13.45	13.00	12.90
03007	AP358 Cruiser	15.75	15.00	14.55	14.10	14.00
03245	Bolt XR Cruiser	15.80	15.05	14.60	14.15	14.05
03218	Cadence XR Cruiser	14.80	14.05	13.60	13.15	13.05
03117	Catalyst XR Cruiser	15.05	14.30	13.85	13.40	
03248	Cosmic Cruiser	14.30	13.55	13.10	12.65	
03216	Crave Cruiser	11.75	11.00	10.55	10.10	10.00
03102	Cumberland Cruiser	12.65	11.90	11.45	11.00	10.90
03255	Elysian Cruiser	15.75	15.00	14.55	14.10	14.00
03039	Enchanted Cruiser	13.70	12.95	12.50	12.05	11.95
03037	Hero XR Cruiser	14.05	13.30	12.85	12.40	12.30
03103	Honey & Pearl Cruiser	10.70	9.95	9.50	9.05	
03233	Ignition Cruiser	14.30	13.55	13.10	12.65	12.55

CORN BI-COLOR SH2 Extra Sweet & Improved Super Sweets						
Price per 1,000 seeds (M)		2.5M	10M	25M	100M	500M*
03038	Kickoff XR <small>Cruiser</small>	15.15	14.40	13.95	13.50	13.40
03025	Nirvana <small>Cruiser</small>	15.25	14.50	14.05	13.60	13.50
04015	Obsession <small>Cruiser</small>	12.00	11.25	10.80	10.35	10.25
03235	Octane <small>Cruiser</small>	14.30	13.55	13.10	12.65	12.55
03215	Signature XR <small>Cruiser</small>	15.45	14.70	14.25	13.80	13.70
03201	Skyray <small>Cruiser</small>	11.40	10.65	10.20	9.75	9.65
03109	Solstice <small>Cruiser</small>	14.85	14.10	13.65	13.20	13.10
03247	Stamina MXR <small>Cruiser</small>	15.30	14.55	14.10	13.65	13.55
03246	Superb MXR <small>Cruiser</small>	14.85	14.10	13.65	13.20	13.10
03122	Tempo XR <small>Cruiser</small>	15.20	14.45	14.00	13.55	13.45
03123	Troubadour XR <small>Cruiser</small>	15.80	15.05	14.60	14.15	14.05
03119	Xanadu <small>Cruiser</small>	15.50	14.75	14.30	13.85	13.75
03174	Xtra Tender 274A <small>Cruiser</small>	13.90	13.15	12.70	12.25	12.15

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

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

COSMIC NEW

CRAVE

ELYSIAN NEW

OCTANE ★



ENCHANTED



OBSESSION

CORN		BI-COLOR SH2 and Improved Super Sweets							Pricing on page 41	
Item #	Variety	Relative Maturity	Ear Height	Ear Size length x diameter	Kernel Rows	Rust	NLB	Use	Eating Quality	Features
03248 NEW	Cosmic	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 tolerance to northern corn leaf blight. Do not use early.
03216	Crave	78	20"	8 x 1.8"	16-18	-	-	FM, HG	****	A Glacial bi-color type with a great husk package, large ear and excellent eating quality that customers will crave. Vibrant bi-color kernels, great husk length, color and flags. Medium tall plant.
03255 NEW	Elysian	78	24"	8 x 1.9"	16-18	R	M	FM, HG	****	Elysian has an excellent husk and disease package. Remarkable flavor with a long harvest window.
03235 ★	Octane	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	79	28"	8 x 2"	18 - 20	M	M	FM, HG	****	All the flavor and texture you would expect from an augmented farm market hybrid. Plump, sweet kernels.
04015	Obsession	79	24"	8 x 2"	18 - 20	M	M	S	**	A super sweet type hybrid from Seminis with excellent eating quality.
03199	7143 <small>EX08767143</small>	80	26"	8 x 1.9"	18 - 20	R	M	S	***	An improved version of Obsession that has a better rust package, eye appeal and eating quality.
03201	Skyray	80	26"	8x1.8"	18-20		M	FM	****	Skyray offers a nice large ear with excellent tenderness and eating quality. Similar to Obsession.
03247	Stamina MXR	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.

CORN		WHITE SU Normal						
Item #	Variety	Relative Maturity	Ear Height	Ear Size length x diameter	Kernel Rows	Use	Eating Quality	Features
01202	Silver Queen	88	40"	8 x 1.8"	14 - 16	HG	*	An older SU variety that still maintains good quality. Was the most popular white hybrid at one time.

CORN WHITE SU Normal

Price per 1,000 seeds (M)

	2.5M	10M	25M	100M	500M*
01202 Silver Queen	8.30	7.55	7.10	6.65	6.55

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

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.



7143 EX08767143



SKYRAY



STAMINA MXR



SILVER QUEEN

FINANCING AVAILABLE

Options include 0% interest with no payments until December 2025.

See page 155 for all of the details!

Best rates available before 12/31/2024

0%



SILVER KING



ILLUSION ★



DIAMOND MINE



MIRAGE ★



MATTAPOISETT



AVALON

CORN		WHITE SE								
Item #	Variety	Relative Maturity	Ear Height	Ear Size length x diameter	Kernel Rows	Rust	NLB	Use	Eating Quality	Features
02231	Silver King	82	24"	8 x 1.9"	16 - 18	M	M	FM, HG	***	A Syngenta hybrid with improved eating quality and disease resistance. Has good tip fill and cover.

CORN		WHITE Synergistic - plant them with SE's								
Item #	Variety	Relative Maturity	Ear Height	Ear Size length x diameter	Kernel Rows	Rust	NLB	Use	Eating Quality	Features
04011 ★	Illusion 🌊	72	28"	7 ½ x 1.8"	14 - 16	M	S	FM, HG	***	A large ear with great eating quality, amazing flag leaves, dark green husk and strong tip fill. A perfect combination for an early season white.
03249	Diamond Mine 🌊	76	30"	8" X 1.8"	16-18		M	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 🌊	78	18"	8 x 1.8"	16 - 18	M	M	FM	****	Excellent eating quality. High row count for a refined kernel. High yield potential. White version of Essence.
04501	Mattapoisett 🌊	80	18"	8 x 1.7"	16 - 18	M	M	FM, HG	****	A hybrid showing excellent plant type, ear and eating quality in our trials.
04017	Avalon 🌊	82	20"	8 x 1.9"	16 - 18	S	M	FM	***	A white version of Providence.

CORN WHITE SE						
		Price per 1,000 seeds (M)				
		2.5M	10M	25M	100M	500M*
02231	Silver King	8.20	7.50	7.10	6.65	6.55

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

CORN WHITE Synergistic							M=1,000 seeds
		Price per 1,000 seeds (M)					
		2.5M	10M	25M	100M	500M*	
04017	Avalon Cruiser	10.75	10.00	9.55	9.10	9.00	
03249	Diamond Mine Cruiser	13.50	12.75	12.30	11.85	11.75	
04011	Illusion Cruiser	13.60	12.85	12.40	11.95	11.85	
04501	Mattapoisett Cruiser	13.50	12.75	12.30	11.85	11.75	
04016	Mirage Cruiser	13.00	12.25	11.80	11.35	11.25	

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



LEADOFF MXR



FREEDOM MXR



EDEN RMN ★



7401 IMP



GLACIAL ★



SV1580SC

CORN

WHITE 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
03243	Leadoff MXR	69	23"	7 1/4-8 x 1.9-2"	16 - 18	R	M	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.
03222	Xtra Tender 372A	72	23"	7 1/2 x 2"	16 - 20	M	S	FM, HG	****	Excellent emergence, and very refined ears and kernels that are tender and sweet.
03204	Freedom MXR	73	19"	7 1/2 - 8 x 1.8"	16	R	M	FM, HG	***	Great ear size and appearance. High yield potential. Strong lodging tolerance. Attractive husk package.
03224	★ Eden RMN	74	26"	8 x 1.75 - 2"	16 - 18	R	R	FM, HG	*****	Eden RMN has an incredible flavor with key improvements: 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.
03049	7401 Imp	75	28"	8 x 1.8"	16 - 18	M	M	FM, HG	****	Bright kernel color. Good husk package. Fantastic flavor.
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.
03017	SV1580SC	79	24"	8 x 1.9"	18 - 20	R	M	S	**	A white version of 7143 that has a good disease package. A variety that can grow well in a wide range of conditions late in the growing season. Dual purpose for roadside and/or shipping.

CORN

YELLOW SU Normal

Item #	Variety	Relative Maturity	Ear Height	Ear Size length x diameter	Kernel Rows	Use	Eating Quality	Features
01001	Early Sunglow	62	18"	7 x 1.7"	12 - 14	HG	*	Popular home garden variety.
01009	NK 199	84	48"	8 x 2"	18-20	HG	*	Mid-season, easy silking, large ear.
01012	lochief	87	36"	9 x 2"	14 - 16	HG	*	Mid-season home garden.

CORN WHITE SH2 Extra Sweet & Improved Super Sweets

	Price per 1,000 seeds (M)	2.5M	10M	25M	100M	500M*
03049 7401 Imp Cruiser		12.95	12.20	11.75	11.30	11.20
03224 Eden RMN Cruiser		15.05	14.30	13.85	13.40	13.30
03204 Freedom MXR Cruiser		14.15	13.40	12.95	12.50	12.40
03100 Glacial Cruiser		12.65	11.90	11.45	11.00	10.90
03243 Leadoff MXR Cruiser		15.70	14.95	14.50	14.05	13.95
03017 SV1580SC Cruiser		12.70	11.95	11.50	11.05	10.95
03222 Xtra Tender 372A Cruiser		11.25	10.50	10.05	9.60	9.50

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

CORN YELLOW SU Normal

	Price per pound in these package sizes	1#	5#	25#	50#	100#*
01012 lochief		12.45	11.20			
01009 NK 199		12.20	10.95	10.60	10.20	
	Price per 1,000 seeds (M)	2.5M	10M	25M	100M	500M*
01001 Early Sunglow		6.25	5.50	5.05	4.60	

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



BODACIOUS RM



GOLD NUGGETS



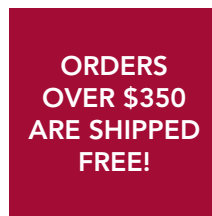
KANDY KORN



INCREDIBLE R/M



CAFÉ



SAVE WITH CASH DISCOUNTS

The earlier you order the more you'll receive!

See page 154 for all of the details.

November7%
December6%
January5%
February4%
March3%
April2%



INFERNO







GOLD STANDARD



HONEY SELECT

CORN		YELLOW SE								
Item #	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	M	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	M	M	FM, HG	****	The best eating SE, large eared, superior holding. Good for freezer corn.
02005	Kandy Korn EH	81	31"	8 x 1.8"	14 - 16	M	M	FM, HG	**	Popular, red husked, market hybrid.
02056	Incredible R/M	85	30"	9 x 2"	18	R	M	FM, HG	***	Rust resistant and MDM resistant Incredible.

CORN		YELLOW Synergistic - plant them with SE's						
Item #	Variety	▼ Relative Maturity	Ear Height	Ear Size length x diameter	Kernel Rows	Use	Eating Quality	Features
04045	Café 	68	15"	7.75 x 1.7	14	FM, HG	***	Yellow version of Latte.
04008	Inferno 	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 	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 YELLOW SE						
Priced per pound in these package sizes						
	1#	5#	25#	50#	100#*	
02055 Bodacious RM	20.65	19.40	19.05	18.65	18.35	
02007 Gold Nuggets	18.85	17.60	17.25	16.85	16.55	
02056 Incredible R/M	20.70	19.45	19.10	18.70	18.40	
Price per 1,000 seeds (M)						
	2.5M	10M	25M	100M	500M*	
02005 Kandy Korn EH	7.70	7.00	6.60	6.20	6.15	
* Multiple packages may be used to fill orders for these quantities.						

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

CORN YELLOW Synergistic				M=1,000 seeds		
Price per 1,000 seeds (M)		2.5M	10M	25M	100M	500M*
04045	Cafe <small>Cruiser</small>	14.00	13.25	12.80	12.35	12.25
04004	Gold Standard <small>Cruiser</small>	13.45	12.70	12.25	11.80	11.70
04012	Honey Select <small>Cruiser</small>	8.80	8.05	7.60	7.15	7.05
04008	Inferno <small>Cruiser</small>	12.50	11.75	11.30	10.85	10.75
* Multiple packages may be used to fill orders for these quantities.						

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



TAKEOFF MXR

EQUINOX NEW

ICON XR ★

GOLDEN HALO NEW

SS7403RY



SC1336

CORN

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	M	FM, HG	*****	An early yellow that brings an ease to harvest and packaging. 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	75	24"	8 X 2"	16-18	R	M	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.
03041	SS7403RY	75	28"	8 x 2"	16 - 18	S	M	FM, S	***	Use in early plantings. High eating quality with very good husk protection and color.
03010	SC1336	81	22"	8 x 1.9"	18 - 20	M	M	FM, S	**	An improved Passion with better tip cover.
03006	Illini Xtra Sweet	85	17"	8 x 2"	18	M	M	HG	*	The original Supersweet.

CORN YELLOW SH2 Extra Sweet & Improved Super Sweets

	Price per 1,000 seeds (M)	2.5M	10M	25M	100M	500M*
03092 4974 VX <small>Cruiser</small>		12.55	11.80	11.35	10.90	10.80
03254 Equinox <small>Cruiser</small>		14.95	14.20	13.75	13.30	13.20
03252 Golden Halo <small>Cruiser</small>		15.00	14.25	13.80	13.35	13.25
03124 Icon XR <small>Cruiser</small>		15.45	14.70	14.25	13.80	13.70
03006 Illini Xtra Sweet <small>Cruiser</small>		9.70	8.95	8.50	8.05	7.95
03010 SC1336 <small>Cruiser</small>		12.85	12.10	11.65	11.20	11.10
03041 SS7403RY <small>Cruiser</small>		11.55	10.80	10.35	9.90	9.80
03223 Takeoff MXR <small>Cruiser</small>		15.70	14.95	14.50	14.05	13.95
03063 Vista XR <small>Cruiser</small>		12.00	11.25	10.80	10.35	10.25

* 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





R400MR pg.49

CORN (Popcorn)

EATING QUALITY

No popcorn varieties are hullless. 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.

CORN ORNAMENTAL POPCORN						
Priced per package		4 oz.				
Priced per pound						
in these package sizes		1#	5#	25#	50#	
06010	Firecracker	10.30	28.20	18.80	18.55	18.30
06016U	Little Bow Peep <small>Untreated</small>	10.35				
06015U	Little Boy Blue <small>Untreated</small>	10.95	29.15	28.55	28.05	27.05
06006	Little Indian	10.05	27.40	18.25	18.00	17.75
05510	Seneca Mini Indian	6.20	16.95	11.30	11.05	10.80

CORN			ORNAMENTAL POPCORN	
Item #	▼ 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.	
06015	Little Boy Blue	100	A selection of small eared ornamental popcorn with 4" ears that are dark blue.	
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.	

POPCORN									
Item #	▼ Variety	Color	Days	Lodging	Yield per acre	Expansion	Eating Quality	Mushroom	Features
<i>Commercial Varieties</i>									
06041	R400MR ^{F1}	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} 	White	105	2%	5000 lbs. +	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} 	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.
<i>Heritage Varieties</i>									
06003	Creame Puff	Yellow	105						A good popping quality, yellow hybrid that often produces two ears per stalk. Home garden.
06004	Iopop 12	Yellow	106	15%	3850 lbs.	38	Fair	15%	An old, small seeded commercial hybrid that was once the standard for eating quality.
06007	Japanese Hulless	White	105						A popular OP selection of white popcorn, for home garden.
06008	Purdue 410	Yellow	108	26%	3866 lbs.	40.8	Poor	4%	A large, mushroom shaped kernelled, yellow hybrid well suited for caramel corn and craft projects.
06002	Snow Puff	White	100						An early, small eared hybrid with good eating qualities well suited for the home gardener.

CORN POPCORN		M=1,000 seeds			
Price per 1,000 seeds (M)		2.5M	10M	25M	100M
<i>Commercial Varieties</i>					
06041	R400MR	7.90	7.40	7.15	6.90
06039	R98114W <small>White Crusier</small>	5.65	5.15	4.90	4.65
06040	R997 <small>Yellow Crusier</small>	5.65	5.15	4.90	4.65
06027	Ruby Red	10.90	10.40	10.15	9.90
06026	Shaman's Blue	9.95	9.45	9.20	8.95

CORN POPCORN		M=1,000 seeds				
Priced per package		4 oz.				
Priced per pound in these package sizes		1#	5#	25#	50#*	
<i>Heritage Varieties</i>						
06003U	Creame Puff <small>Untreated</small>	5.30	13.50	9.00	8.75	8.50
06004U	Iopop 12 <small>Untreated</small>	5.30	13.50	9.00	8.75	8.50
06007U	Japanese Hulless <small>Untreated</small>	4.70	12.00	8.00	7.75	7.50
06008U	Purdue 410 <small>Untreated</small>	5.30	13.50	9.00	8.75	8.50
06002U	Snow Puff <small>Untreated</small>	5.30	13.50	9.00	8.75	8.50
* Multiple packages may be used to fill orders for these quantities.						



AMERICAN WAY



EARTH TONES



FIESTA



INDIAN ART 104



INDIAN ART
CRANBERRY



INDIAN ART
RED FIRE

CORN		ORNAMENTAL	
Item #	▼ Variety	Days	Features
05535	American Way	115	A very large eared 10 - 13" variety that has become popular with fresh market growers.
05536	Earth Tones	105	Has marvelous shades of blue and green as well as traditional reds and oranges. Can be ground into cornmeal.
05507	Fiesta	100	A variety developed by the University of New Hampshire. Early maturing with 8" ears and kernels that are variegated and of many colors.
05104	Indian Art 104 ^{F1}	105	A mid season hybrid with excellent ear color and shape. Will perform well in the main and northern areas of the corn belt.
05108	Indian Art Cranberry ^{F1}	104	An ornamental hybrid with beautiful shades of pink, lavender to dark mauve. Good stalk strength with high yields. 10" ear.
05101	Indian Art Red Fire ^{F1}	105	Newest release in the "Indian Art" series. Comprehensive hybrid red stalk and red husk package. Kernels are deeper red when compared to Bloody Butcher. 8 - 10" ear.
VMAZE	Maze Corn	100 - 115	A conventional corn hybrid with the plant height, health and standability you'll need for a long-standing maze. Hybrid maturity is subject to change but is generally in the 100 to 115 day relative maturity which will be suitable for many growing areas. Can be harvested for grain once the season is complete. Be sure to use herbicides labeled for conventional corn.
VRRMAZEGT	RR Maze Corn	100 - 115	A glyphosate herbicide-resistant corn hybrid with the plant height, health and standability you'll need for a long-standing maze. Hybrid maturity is subject to change but is generally in the 100 to 115 day relative maturity which will be suitable for many growing areas. Can be harvested for grain once the season is complete. A grower license for the herbicide trait is required. If you are not licensed, please call us to obtain an agreement, or go to www.agcelerate.com to obtain a license.
VSHOCK	Shock Corn	100 - 115	A conventional corn hybrid with the plant height, health and strength needed to create decorative corn shocks. Hybrid maturity is subject to change but is generally in the 100 to 115 day relative maturity which will be suitable for many growing areas.
06021	Wampum	95	An early version of ornamental corn, with diverse colors and ears that range from 3 1/2 - 5 1/2" in length. Developed by Dr. Baggett, Oregon State University. Larger diameter ear than Little Indian.
See page 49 for Ornamental Popcorn and page 80 for Ornamental Sorghum / Broomcorn			

CORN ORNAMENTAL CORN		M=1,000 seeds				
Priced per package		4 oz.				
Priced per pound in these package sizes		1#	5#	25#	50#*	
05535	American Way	6.80	26.50	17.65	17.40	17.15
05536U	Earth Tones <small>Untreated</small>	7.85	30.70	20.45	20.20	19.95
05507	Fiesta	5.60	21.85	14.55	14.30	14.05
05104	Indian Art 104	7.80	30.55	20.35	20.10	19.85
05108	Indian Art Cranberry	7.80	30.55	20.35	20.10	19.85
05101	Indian Art Red Fire	8.05	31.45	20.95	20.70	20.45
06021	Wampum	7.40	28.90	19.25	19.00	18.75
Priced per package			10M	25M	80M	
VMAZE	Maze Corn					222.00
VRRMAZEGT	RR Maze Corn					317.00
VSHOCK	Shock Corn		40.95	81.90	222.00	
Maze and Shock corn prices include shipping.						
* Multiple packages may be used to fill orders for these quantities.						



CALIENTE 119



CALIENTE 199



CALIENTE ROJO



GULF ANNUAL
RYEGRASS



HAIRY VETCH

COVER CROPS			
Item #	▼ Variety	Seeding Rate Pounds / Acre	Features
Biofumigants			
Caliente Brand mustards used for green manure and biofumigation can improve soil quality and reduce your reliance on chemicals for disease, weed and nematode control. Systems which are currently in commercial use are: Summer planting in rotation for potatoes, onions, beans and peas as well as spring and fall planting in rotation for beans, carrots, lettuce and strawberries. Call us to discuss your specific crop rotation needs.			
CBIO.99002	Caliente 119	10 - 12	Improves soil health and productivity by increasing water penetration, reducing compaction, increasing water holding capacity, reducing wind erosion and increasing beneficial organisms. Also, when used correctly, it is a very effective soil fumigant. This mustard is planted in the spring.
CBIO.99003	Caliente 199	9 - 11	Produces excellent biomass with the highest "biofumigation" potential available. Excellent disease, weed, and nematode suppressions in many crops. This mustard is typically planted in the fall.
CBIO.99006	Caliente Rojo	8 - 10	Newest mustard release with purplish/red leaves and the highest glucosinolate production currently available. Vigorous growth with high leaf biomass and extensive root system. Good choice for organic or conventional growers with high disease and/or nematode pressure.
Cover Crops			
CBWH.99004	Buckwheat	20 - 35	Cover crop to hold soil in place or green manure for plowdown. Excellent smother crop for competing weeds. Able to pull unusable phosphorus from the subsoil and deposit in the top layer.
CRYE.99006	Gulf Annual Ryegrass	12 - 20	Rapid germinating and fast establishing plant used for ground cover or soil stabilization. Does not tolerate extreme heat or cold. Excellent transitional grass.
CVET.99005	Hairy Vetch	15 - 20	Winter hardy legume. Referred to as "King of Nitrogen Producers". Forms a dense cover that weeds find difficult to penetrate.

COVER CROPS				
Priced per package		5#	25#	50#
Biofumigants				
CBIO.99002U	Caliente 119 <small>Untreated</small>	60.00	172.50	300.00
CBIO.99003U	Caliente 199 <small>Untreated</small>	63.00	187.50	330.00
CBIO.99006U	Caliente Rojo <small>Untreated</small>	65.00	197.50	350.00
Cover Crops				
CBWH.99004U	Buckwheat <small>Untreated</small>	53.00	145.00	245.00
CRYE.99006U	Gulf Annual Ryegrass <small>Untreated</small>	46.50	105.00	165.00
CVET.99005U	Hairy Vetch <small>Untreated</small>	55.00	147.50	250.00
Prices include shipping.				



CUCUMBERS

PLANTING

Direct seed ½" - 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 149 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 Cassicola
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.



CORINTO ★



EXCELSIOR ★



KATRINA



CORENTINE **NEW**



SUPER MAX



SUPREMO

CUCUMBERS		PROTECTED CULTURE 🌱					
Item #	▼ Variety	Season	Plant	Length	Color	Disease	Features
23569	Camaro ^{F1}	Spring / Autumn	Vigorous	13 - 16"	DG	PM	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 maintains high quality and production levels throughout the harvest season.

CUCUMBERS		PICKLING						Pricing on page 55
Item #	▼ Variety	Days	Habit	Plant	L/D Ratio	Color: Spine-Fruit	Disease	Features
23001	Calypso ^{F1}	51	GY	Compact	3.1	W-MDG	A, ALS, PM, S	Very productive, widely adaptable.
23002	Carolina ^{F1}	52	GY	Compact	2.95	W-MG	A, ALS, CMV, PM, S	High yielder, good briner, blocky.
23005	Citadel ^{F1} 🌱	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 ^{F1} 🌱 NEW	45-55	P	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 ^{F1} 🌱	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.
23101	SMR 58	56	MO	Vigorous	2.9	G	PM, S, TLS	Popular northern garden variety. Replaces Boston Pickling.
23008	Super Max ^{F1} 🌱	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 ^{F1} 🌱	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 ^{F1} 🌱	52	P	Vigorous	3	W-MDG	A, ALS, CMV, PM, S	A medium dark, blocky pickle that picks over multiple harvests.

CUCUMBERS PROTECTED CULTURE				
	Priced per package	100 Seeds	500 Seeds	1000 Seeds
23569U Camaro ^{Untreated}		132.15	440.40	734.00
23576 Corinto		41.10	137.00	228.30
23574 Excelsior		26.20	87.30	145.50
23571 Katrina		41.20	137.20	228.65



BRICKYARD



BRISTOL



COBRA



DARLINGTON



RACEWAY



SV4719CS

CUCUMBERS					SLICERS			
Item #	▼ Variety	Days	Habit	Plant	L/D Ratio	Color	Disease	Features
23502	Brickyard ^{F1}	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 ^{F1}	54	GY	Moderately Vigorous	8 1/4 x 2 1/4"	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.
23523	Bush Crop	55	MO	Restricted	7 1/2"	MG	S	An ideal variety for containers or small gardens.
23004	Cobra ^{F1}	60	GY	Vigorous	9.5 x 2"	DG	A, ALS, CMV, PM, PRSV, S, WMV, ZYMV	Productive hybrid with an excellent disease package and outstanding 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.
23503	Dasher II ^{F1}	58	GY	Vigorous	8 x 2 1/4"	VDG	A, CMV, PM, S	High yielding market hybrid.
23602	Marketmore 76	66	MO	Vigorous	8 - 9 x 2 1/2"	VDG	CMV, PM, S	Garden variety.
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.
23606	Spacemaster 80	60	MO	Determinate	7 1/2 x 2 1/2"	DG		Home garden and/or container.
23601	Straight Eight	60	MO	Vigorous	8 x 2 1/2"	DG		Home garden slicer.
23581	SV4719CS ^{F1}	56	GY	Moderately Vigorous	8 x 2 1/4"	DG	A-1, ALS, DM, PM, S, ZYMV	An early gynoecious slicer hybrid that features a vigorous vine and yields quality fruit that hold their uniform, dark green color well.

CUCUMBERS					BURPLESS SLICERS			
Item #	▼ Variety	Days	Habit	Plant	L/D Ratio	Color	Disease	Features
23546	Burpless Bush ^{F1}	55	PF	Bush	10 - 12"	DG		A popular variety used by the bedding plant industry for the home gardener.
23506	Tasty Green ^{Burpless 26 F1}	55	MO	Vigorous	9 - 12"	DG	DM, PM	Very popular for the home garden.

GROWER PREFERRED ALL-STARS ★ CUCUMBERS

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.

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 multi-virus 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



CUCUMBERS PICKLING

M=1,000 seeds

	Priced per package	1 oz.		4 oz.	
		Priced per pound in these package sizes		1#	5#
23551 Bush Pickle		11.70	33.15	83.85	83.35
23001 Calypso		6.20	17.60	44.50	44.00
23002 Carolina		6.30	18.00	45.50	45.00
23101U SMR 58 Untreated		4.25	12.05	30.45	29.95

	Priced per package	100 Seeds	Price per 1,000 seeds (M)			
			1M	5M	15M	75M*
23005 Citadel FI400		3.20	11.75	10.00	9.00	8.25
23582 Corentine FI400		4.50	24.60	22.85	21.85	21.10
23014 Eureka FI400		3.80	17.60	15.85	14.85	14.10
23008 Super Max FI400		19.00	17.25	16.25	15.50	
23003 Supremo FI400		19.00	17.25	16.25	15.50	
23025 Vlasstar FI400		10.00	8.25	7.25	6.50	

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

CUCUMBERS SLICERS

M=1,000 seeds

Priced per package Priced per pound in these package sizes		1/2 oz.	1 oz.	4 oz.			
					1#	5#	25#
23523	Bush Crop	6.90	9.85	32.80	93.70	92.70	91.70
23602	Marketmore 76		8.10	18.45	50.15	49.65	49.15
23606U	Spacemaster 80 <small>Untreated</small>		5.25	11.95	32.50	32.00	31.50
23601U	Straight Eight <small>Untreated</small>		5.05	11.85	31.50	31.25	31.00
Priced per package		100 Seeds					
Price per 1,000 seeds (M)			1M	5M	15M	75M*	350M
23502	Brickyard <small>FI400</small>		18.75	17.25	16.25	15.50	14.50
23512	Bristol <small>FI400</small>	5.45	19.70	18.20	17.20	16.45	15.45
23004	Cobra <small>FI400</small>		24.15	22.65	21.65	20.90	19.90
23568	Darlington <small>FI400</small>	7.55	27.40	25.90	24.90	24.15	23.15
23503	Dasher II <small>FI400</small>	4.20	15.15	13.65	12.65	11.90	10.90
23505	Raceway <small>FI400</small>	5.30	19.20	17.70	16.70	15.95	14.95
23581	SV4719CS <small>FI400</small>		18.00	16.50	15.50	14.75	

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



The early-season insect protection can prevent or eliminate damage caused by cucumber beetles.

www.ruppseeds.com/fi400

FarMore® treated items are either highlighted in this green color or feature the FarMore® FI400 symbol.



CUCUMBERS BURPLESS SLICERS

M=1,000 seeds

		1/2 oz.		1 oz.		4 oz.	
		Priced per package		Priced per pound in these package sizes		1#	5#
23546	Burpless Bush	9.45	13.50	43.20	127.00	126.00	125.00
		100 Seeds		500 Seeds		Price per 1,000 seeds in these package sizes	
						1M	5M
23506	Tasty Green <small>Burpless 26</small>	4.45	16.85	29.65	27.90	26.90	



FAIRY TALE



GAUDI

GHOST STORY NEW

HANSEL



MEGAL



MILLIONAIRE

EGGPLANT

Item #	▼ Variety	Days	Plant Size	Fruit Shape	Color	Features
24001	Black Beauty	80	Large bush	Oval	Purple	Large fruited, home garden variety.
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.
24522	Megal ^{F1}	60	36"	Elongated Oval	Purple Black	An early coloring Vilmorin Italian type hybrid that allows a smaller size harvest if desired. Fruit are 7 to 9" long by 3" around. Colors under cool conditions.
24520	Millionaire ^{F1}	55	22 - 26"	Slender	Brilliant Black	One of the best early, long Japanese eggplants.
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.

EGGPLANT

M=1,000 seeds

	Priced per package	1/4 oz.	1/2 oz.	1 oz.	4 oz.	1#
24001 Black Beauty				4.40	10.65	35.50
24520 Millionaire		38.50	66.95	107.10	322.05	
	Priced per package	500 Seeds				
	Price per 1,000 seeds (M)	1M	5M	25M	100M	
24505 Epic	7.90	12.60	11.50	11.10	10.55	
24526 Fairy Tale	45.85	73.30	72.20	71.80	71.25	
24502 Gaudi	21.25	34.00	32.90	32.50	31.95	
24517 Ghost Story	45.85	73.30	72.20	71.80	71.25	
24525 Hansel	45.85	73.30	72.20	71.80	71.25	
24522 Megal	21.15	33.80	32.70	32.30	31.75	
24524 Nadia	19.00	30.35	29.25	28.85	28.30	
24521 Night Shadow	9.95	15.90	14.80	14.40	13.85	
24516 Santana	12.60	20.10	19.00	18.60	18.05	



NADIA

POST HARVEST FINANCING AVAILABLE
Options include 0% interest with no payments due until December 2025.

The best rates are available before 12/31/2024.

See page 155 for all of the details.

ENDIVE / ESCAROLE		CHICORY	
Item #	▼ Variety	Days	Features
<i>Endive - narrow, finely cut, curly leaves.</i>			
25002	Fine Green Curled	80	A Heritage variety. Dark green, curled, finely cut leaves with a fleshy midrib. Plants average 15 - 17" across.
25005	Lorca	90	A Salad King type with large, deep, well blanched heads that are refined and uniform. Tip burn resistant.
25009	Tosca <small>Baby Endive</small>	45	A Tres Fine type with resistance to bolting. Especially good for very early planting.
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.
<i>Escarole - smooth, rounded, broad leaves.</i>			
25001	Broadleaf Batavian	80	A Heritage variety. Dark green leaf, white midrib. Upright growth, creamy yellow hearts. Escarole type.

ENDIVE / ESCAROLE CHICORY		M=1,000 seeds			
		Priced per package			
		1 oz.	4 oz.		
		Priced per pound in these package sizes		1#	5#
25001U	Broadleaf Batavian <small>Untreated</small>	4.55	8.65	22.50	21.75
25002U	Fine Green Curled <small>Untreated</small>	4.55	8.65	22.50	21.75
		Priced per 1,000 seeds in these package sizes		10M	100M 400M
25005U	Lorca <small>Untreated</small>			1.00	0.95 0.85
25009U	Tosca <small>Untreated</small>			1.00	0.95 0.85
25010U	Tres Fine Maraichere <small>Untreated</small>			0.50	0.45 0.35

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GIZMO ★ pg.60

GOURDS

PLANTING

Direct seed in soils that are above 70° F. Plant gourds ½" - 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 149 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. www.ruppseeds.com/fi400



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.

GOURDS		LAGENARIA SICERARIA	
Item #	▼ 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.
26016	Calabash Penguin	120	5" diameter, 12 - 15" long with a short curved neck. Fairly uniform shape.
26015	Caveman's Club Maranka	120	Club shaped fruit measures 15 - 18" long and approximately 6" in diameter. Makes a wrinkled, knobby bulb.
26035	Extra Long Handled Dipper	120	A dipper gourd with a 3 - 4' long handle. Grow on trellis for straight gourds.
26020	Italian Edible <small>Cucuzzi</small>	100	4 - 5" in diameter by 2 - 3' long, tapering toward stem end. Edible when young, becoming hard shelled at maturity.
26021	Large Bottle	120	A 5" in diameter by 12 - 14" fruit. Fruit will vary somewhat in size.
26033	Large Speckled Apple	120	A large true apple shaped gourd 4 - 5" in diameter and 6 - 7" tall. Great for table decorations.
26003	Luffa <small>Sponge</small>	130	8 - 12" long by 3 - 4" in diameter. After curing, peel outside shell to reveal the sponge.
26025	Miniature Bottle	100	A miniature sized bottle gourd, 2" in diameter by 4" long.
26031	Snake	120	A long, coiled gourd.
26027	Speckled Swan	100	A large, crookneck gourd whose tip looks like a swan's head; 14 - 18" long with a 6" base.

GOURDS		PEPO		Pricing is on page 60
Item #	▼ Variety	Days	Features	
26501	Autumn Wings Large Swan 	100	A unique gourd of many colors with wings, warts, and the fruit shape of a swan gourd. Its bulb size is 2 ½ or 3" in diameter with a neck up to 12" long. A grand addition to our other fancy ornamental selections for the ornamental trade.	
26502	Autumn Wings Medium 	100	A unique gourd of many colors with the fruit shape of a spoon but with wings. Its bulb size is 2 ½ or 3" in diameter with a neck up to 6" long. A grand addition to our other fancy ornamental selections for the ornamental trade.	
26503	Autumn Wings Small 	100	A unique gourd of many colors with wings and fruit shape of a swan pear. Its bulb size is 2 ½ or 3" in diameter with a neck up to 4 - 5" long. Has great potential for the shipper if the wings can be protected from breakage.	
26510	Autumn Wings Blend 	100	A blend of 50% Autumn Wings Small, 25% Autumn Wings Medium, and 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#	Seeds /lb.
26034	Birdhouse Martinhouse	10.65	24.95	70.70	69.70	68.70	3,500
26034U	Birdhouse Martinhouse <small>Untreated</small>	10.65	24.95	70.70	69.70	68.70	3,500
26002U	Bushel <small>Untreated**</small>	13.65	32.10	91.00	90.00	89.00	1,800
26016	Calabash Penguin	10.50	24.70	70.00	69.00	68.00	2,500
26015	Caveman's Club Maranka	13.65	32.10	91.00	90.00	89.00	2,300
26035	Extra Long Handled Dipper	11.05	25.90	73.35	72.35	71.35	4,500
26020	Italian Edible	10.50	24.70	70.00	69.00	68.00	2,600
26021	Large Bottle	10.50	24.70	70.00	69.00	68.00	2,300
26033	Large Speckled Apple	12.05	28.25	80.10	79.10	78.10	2,400
26003	Luffa	13.65	32.10	91.00	90.00	89.00	5,200
26025	Miniature Bottle	11.35	26.65	75.50	74.50	73.50	5,000
26031	Snake	10.50	24.70	70.00	69.00	68.00	2,600
26027	Speckled Swan	10.95	25.65	72.70	71.70	70.70	2,200
** 15 seeds for \$5.00							



AUTUMN WINGS
LARGE SWAN



AUTUMN WINGS
MEDIUM



AUTUMN WINGS
BLEND



GALAXY OF STARS







GIZMO ★



HOARGARTH 📌

GOURDS

PEPO

Item #	Variety	Days	Features
26042	Galaxy of Stars ^{F1} 	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.
26013	Small Flat Striped	90	A green fruit with yellow stripes that is 3" in diameter by 2" high.
26011	Small Spoon	90	A bicolor yellow and green fruit that is shaped like a small club or dipper.

GOURDS PEPO

M=1,000 seeds

Priced per package		250 Seeds					
Price per 1,000 seeds (M)		1M	5M	25M	55M	Seeds /lb.	
26501	Autumn Wings Large Swan	10.25	29.15	28.15	27.15	26.15	7,300
26501	Autumn Wings Large Swan ^{F1400}	12.45	35.45	34.45	33.45	32.45	7,300
26501U	Autumn Wings Large Swan ^{Untreated}	10.25	29.15	28.15	27.15	26.15	7,300
26502	Autumn Wings Medium	10.25	29.15	28.15	27.15	26.15	8,000
26502	Autumn Wings Medium ^{F1400}	12.45	35.45	34.45	33.45	32.45	8,000
26502U	Autumn Wings Medium ^{Untreated}	10.25	29.15	28.15	27.15	26.15	8,000
26503	Autumn Wings Small	10.25	29.15	28.15	27.15	26.15	7,800
26503	Autumn Wings Small ^{F1400}	12.45	35.45	34.45	33.45	32.45	7,800
26503U	Autumn Wings Small ^{Untreated}	10.25	29.15	28.15	27.15	26.15	7,800
26510	Autumn Wings Blend	10.25	29.15	28.15	27.15	26.15	8,000
26510	Autumn Wings Blend ^{F1400}	12.45	35.45	34.45	33.45	32.45	8,000

GOURDS PEPO

M=1,000 seeds

Priced per package		250 Seeds					
Price per 1,000 seeds (M)		1M	5M	25M	55M	Seeds /lb.	
26042	Galaxy of Stars	32.75	93.55	92.55	91.55	90.55	10,000
26042	Galaxy of Stars ^{F1400}	34.95	99.85	98.85	97.85	96.85	10,000
26042U	Galaxy of Stars ^{Untreated}	32.75	93.55	92.55	91.55	90.55	10,000
26009	Gizmo ^{F1400}	41.45	118.35	117.35	116.35	115.35	6,600
26012	Hoargarth ^{F1400}	40.10	114.45	113.45	112.45	111.45	3,500
26026	Rupp Fancy Warted	5.20	14.75	13.75	12.75	11.75	9,400

GOURDS PEPO

M=1,000 seeds

Priced per package		1 oz.		4 oz.		Seeds /lb.	
Priced per pound in these package sizes				1#	5#		
26043	Lunch Lady	22.35	52.55	153.30	150.30	147.30	3,300
26013	Small Flat Striped	14.55	34.20	99.75	96.75	93.75	9,700
26011	Small Spoon	14.55	34.20	99.75	96.75	93.75	11,000



LUNCH LADY



RUPP FANCY
WARTED



FRESH PAK



CELINET



BOLSACHICA



AEROSTAR



TAMARINDO



RED DRAGON



DERONDA



MIZ AMERICA

GREENS		Pricing on page 62	
Item #	Variety	Days	Features
Asian			
49009	Mizuna Japanese Green	21 - baby, 40 - full	An oriental, non-pungent mustard with tender, narrow stems and deeply cut, fringed leaves.
49006	Tatsoi Oriental Green	21 - 28 baby, 45 - 50 full	Spoon shaped, thick, very dark green leaves. Plants are a compact rosette growth.
Baby Leaf - Beet			
14201	Fresh Pak	25 - 35	A perfect choice for baby leaf and spring mix growers. Nice dark green leaves paired with dark red petioles that make it stand out. Fresh Pak has a well-defined veination that runs throughout the leaf. It is a slow to moderate growing variety. High resistance to Downy Mildew race 1 and IR to Cercospora leaf spot.
Green Leaf			
30107	Celinet		Narrow-cutting surface with good leaf flexibility and attractive leaf fruit.
Green Leaf - Green Oak Leaf			
30101	Bolsachica		Dark green oak leaf for baby leaf production with full Downy Mildew resistance. Nicely serrated, thick green leaves stand up straight and have a very small leaf attachment. Maintains a deep green tone. High resistance to Downy Mildew races: 1-26 and Lettuce Leaf Aphid race: 0.
Baby Leaf Lettuce - Green Romaine			
30102	Aerostar		Mid-size dark green romaine with excellent disease resistance. A dual purpose variety that works well for medium size romaine heads or as a baby leaf. Dark green leaves are relatively smooth, heading up well all season long. High resistance to Downy Mildew races: 1-27. Intermediate resistance to Lettuce Mosaic Virus.
Baby Leaf Lettuce - Red Leaf			
30104	Tamarindo		A red leaf baby leaf variety with improved texture and yield on an erect plant. High resistance to Downy Mildew races: 1-26 & 28.
Baby Leaf Lettuce - Red Oak Leaf			
30109	Red Dragon		Extremely upright, uniform, cherry-colored variety with good shelf life and field-holding ability.
Baby Leaf Lettuce - Red Romaine			
30108	Deronda		Dark red variety for baby leaf. Thick-leaved with nice leaf structure. Real romaine shape.
Baby Leaf - Mustard			
32100	Miz America <small>Baby Leaf Mustard</small>	20 - 25	A red mizuna hybrid with exceptionally uniform leaf color, shape and size. Maintains deep dark red color on both sides of the leaf even at a mature stage. An upright plant habit makes for easy harvesting. Has a pleasant, mild taste - not bitter or spicy.
More varieties on the next page -->			



SEASIDE



FIRE FRESH

RED GIANT
MUSTARD**POST HARVEST FINANCING AVAILABLE**

Options include 0% interest with no payments due until December 2025.

The best rates are available before 12/31/2024.

See page 155 for all of the details.

**JOHN DEERE**
FINANCIAL**0%****GREENS**

Item #	▼ Variety	Days	Features
<i>Baby Leaf - Spinach</i>			
41006	Seaside		Very uniform baby leaf variety. Moderate growth rate and an upright plant habit. Smooth, thick, very dark green, spade-shaped leaf making it a perfect choice for baby leaf growers. Downy mildew resistance for growers who require a premium disease package.
<i>Baby Leaf - Swiss Chard</i>			
43100	Fire Fresh		Bright red petioles and medium dark green leaves that make it a great choice for baby leaf or spring mix growers. Moderate to fast growth rate and an upright plant habit. Round to oval leaves that have a slight texture. Premium disease package.
<i>Gourmet</i>			
25501	Grazia Wild Arugula	40	A popular, improved, wild Arugula selection that is very uniform with dark green leaves. It is slower bolting than standard arugula with the best shelf life of any other variety in the market.
25504	Peppergrass Cress	10	A pungent flavor that brightens up salads or sandwiches. Easy to grow in flats or on your windowsill. Begin harvest when about 2" tall.
25503	Rocket Arugula <small>Rugola</small>	40	Best in cool seasons. Imparts a rich, unmistakable flavor to salads.
25507	Sorrel	60	A perennial green with an extremely lemony flavor. Used in salads, soups and sauces, especially with fish dishes. Favored in Europe.
25505	Upland Cress	50	A cress that is much easier to grow than Watercress, but very similar. Plant is a 6 - 8" rosette and has a spicy flavor.
<i>Mustard</i>			
25508	Red Giant Mustard	23 - baby, 45 - full	Thick, tender, fine flavored savoyed leaves with a purplish red color make this item a fine addition to your gourmet salad mixes. Very pungent when mature.

GREENS

M=1,000 seeds

	Price per package	1 oz.	4 oz.	1#
<i>Asian</i>				
49009U	Mizuna Japanese Green <small>Untreated</small>	4.00	9.05	25.85
49006U	Tatsoi Oriental Green <small>Untreated</small>	4.45	10.05	28.60
<i>Gourmet</i>				
25504U	Peppergrass Cress <small>Untreated</small>	3.00	6.75	19.25
25503U	Rocket Arugula <small>Rugola Untreated</small>	3.45	7.80	22.25
25507U	Sorrel <small>Untreated</small>	6.55	14.85	42.40
25505U	Upland Cress <small>Untreated</small>	2.95	6.60	18.75
<i>Mustard</i>				
25508U	Red Giant Mustard <small>Untreated</small>	4.40	10.00	28.50
<i>Price per 1,000 seeds (M)</i>				
		25M	100M	500M*
<i>Gourmet</i>				
25501	Grazia Wild Arugula	0.26	0.20	0.10
<i>Price per 1,000 seeds (M)</i>				
		5M	100M	500M*
<i>Baby Leaf - Beet</i>				
14201	Fresh Pak	0.66	0.60	0.50
<i>Baby Leaf - Mustard</i>				
32100	Miz America	0.46	0.40	0.30

GREENS

M=1,000 seeds

	Price per 1,000 seeds (M)	5M	100M	500M*
<i>Baby Leaf - Spinach</i>				
41006	Seaside	0.57	0.51	0.41
<i>Baby Leaf - Swiss Chard</i>				
43100	Fire Fresh	0.64	0.58	
<i>Baby Leaf Lettuce - Green Leaf</i>				
30107U	Celinet <small>Untreated</small>	0.95	0.85	0.75
<i>Baby Leaf Lettuce - Green Oak Leaf</i>				
30101U	Bolsachica <small>Untreated</small>	0.95	0.85	0.75
<i>Baby Leaf Lettuce - Green Romaine</i>				
30102U	Aerostar <small>Untreated</small>	0.95	0.85	0.75
<i>Baby Leaf Lettuce - Red Leaf</i>				
30104U	Tamarindo <small>Untreated</small>	0.95	0.85	0.75
<i>Baby Leaf Lettuce - Red Oak Leaf</i>				
30109U	Red Dragon <small>Untreated</small>	0.95	0.85	0.75
<i>Baby Leaf Lettuce - Red Romaine</i>				
30108U	Deronda <small>Untreated</small>	0.95	0.85	0.75

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



AYA, PROSPERA®
DMR



RED, PROSPERA® **NEW**
DMR



EMILY



EVERLEAF EMERALD
TOWERS



EVERLEAF
GENOVESE



GENOVESER

GROUND CHERRY

Item #	▼ Variety	Features
26500	Aunt Molly's Ground Cherry <small>Husk Tomato</small>	That old, difficult-to-find heritage item cherished in pies, over ice cream, or in fresh fruit salads. The ½ - ¾" fruit are encased in a papery husk that turns brown when the fruit ripens. Grows on small vine on the ground.

GROUND CHERRY

	Priced per package	100 Seeds	500 Seeds	1M
26500U	Aunt Molly's Ground Cherry <small>Untreated</small>	4.55	7.00	10.00

HERBS

FOR THE PROFESSIONAL GROWER

Pricing on page 65

Item #	▼ Variety	Annual / Perennial	Features
Basil - Downy Mildew Resistant - DMR			
27041	Aya, Prospera® DMR	A	New generation of downy mildew protected basil. This semi-compact unique and elegant plant can be used for container and field production. Its leaves are dark, shiny, and flat-spoon shaped. Expect a massive stem and a highly productive plant. Maturity is about 40-55 days from sowing.
27042	Red, Prospera® DMR	A	A downy-mildew resistant basil hybrid.
Basil			
27023	Cinnamon	A	A cinnamon fragrance combined with basil's sweet essence. Leaves make a delicate flavored jelly, excellent tea, and adds a new flavor when used in your favorite recipes.
27035	Emily	A	A compact Genovese type basil with medium to large leaves. Because of improved shelf life Emily is recommended for summer production and year round in hot climates; works well in the field or greenhouse. Excellent performance against Fusarium.
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 stays tidy for many uses, including in-ground, container gardens and hydroponics. Traditional Genovese flavor is perfect for eating 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 pesto and other sauces. Intermediate resistance to downy mildew and resistant to Fusarium.
27033	Genoveser	A	A special, high yielding strain, dark green, cup shaped selection, glossy leaf, recommended for field production.
27012	Italian Large Leaf	A	Leaves are broad, oval and crinkly with spicy flavor. Used in perfumes, Italian seasonings, and soups.
27017	Lemon	A	Pleasing citrus aroma, excellent in vinegars or with fish.
27040	Rosie	A	A selection with intensive red color, excellent aroma and quick growing. Recommended for field or greenhouse production.
27030	Siam Queen	A	An improved cultivar of ornamental and aromatic Thai basil. Has 3" leaves, distinctive purple stems, and is an eye-catching addition with flowers for an edible landscape accent. Has an exotic flavor.
Borage			
27004	Borage	A	Flavor similar to cucumbers, used to flavor soups, salads, curries, fish and chicken dishes. Blue star shaped flower is also edible and an attractant to bees.
Catnip			
27509	Catnip	P	A vigorous growing mint loved by cats. Grayish green leaves have a strong mint-like flavor.
More varieties on the next page -->			



GREEN SLEEVES



MARJORAM, SWEET



OREGANO
VULGARE



GIGANTE D'ITALIA



SAGE



SUMMER SAVORY

HERBS		FOR THE PROFESSIONAL GROWER		Pricing on page 65
Item #	▼ Variety	Annual / Perennial	Features	
Chervil				
27005	Chervil	A	The fine cut, deep green leaves look like a delicate, lacy version of parsley. Flavor is a mild anise/parsley and goes well with fish, seafood, eggs or in salads. At its best fresh from the garden.	
Chives				
27510	Garlic	P	Leaves add a mild, delicate but distinctive garlic flavor to your favorite dishes. Best when raw or briefly cooked. The pretty white flowers also add flavor and eye appeal.	
27515	Nelly	P	A fine to medium thick shafted, dark blue green variety. Strong against diseases, thrip spots and leaf tips. For fresh market and industry uses.	
27514	Staro	P	Extra thick, dark green leaved variety for all growing purposes. Excellent for forcing and pot growing as well as field production.	
Coriander / Cilantro				
27002	Calypso	A	British bred coriander has excellent bolting resistance and can be cut back and allowed to re-grow at least 3 times throughout the summer due to its extremely low growing point. This quick growing annual herb is best grown for its delicious foliage that can be added to salads, curries and soups.	
27013	Santo	A	A fast growing, yet slow bolting strain with very high yield. For Mexican and Oriental cooking. Monogerm seed.	
Dill				
27007	Bouquet	A	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.	
Fennel				
27008	Fennel <small>Florence</small>	A	Anise like flavor is used to flavor eggs, fish and sauces. The celery stems, bulbs and foliage are used fresh or cooked.	
Lavender				
27502	Lavender <small>Vera</small>	P	Great for dried flowers, perfuming linens, and repelling moths. Hardy.	
Marjoram				
27009	Marjoram <small>Sweet</small>	A	Used fresh or dried for seasonings in salads, vegetables, meats, soups, eggs, peas and beans.	
Oregano				
27503	Oregano <small>Vulgare</small>	P	Purple flowered. Seasons tomato sauces, fish, salad dressings and pizza.	
Parsley				
35012	Gigante d'Italia	A	A plain, dark green, large leaf sized variety; very aromatic and high yielding with multiple cuts.	
Peppermint				
27504	Peppermint	P	Leaves used as mint tea and as a meat garnish. In addition, the mint oil has many other uses.	
Rosemary				
27505	Rosemary	P	Leaves are used in seasoning meats, sauces, and wonderful for potpourri.	
Sage				
27506	Sage	P	Most widely used herb. Seasons poultry, sausage, etc.	
Summer Savory				
27011	Summer Savory	A	Fresh or dried, used as seasonings in gravies and stews.	
Thyme				
27508	German Winter	P	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!

See page 154 for all of the details.

November7%
December6%
January5%
February4%
March3%
April2%

POST HARVEST FINANCING AVAILABLE

Options include 0% interest with no payments due until December 2025.

The best rates are available before 12/31/2024.

See page 155 for all of the details.



JOHN DEERE
FINANCIAL

0%

HERBS FOR THE PROFESSIONAL

Price per package/pound		1/4 oz	1 oz.	4 oz.	1#	5#	25#
Basil							
Aya, Prospera® DMR							
27041U	Untreated	13.40	42.85	126.00	336.00	335.00	
27023U	Cinnamon Untreated	3.45	11.00	32.35	86.25		
27012U	Italian Large Leaf Untreated	2.75	3.75	10.90	29.00	28.00	
27017U	Lemon Untreated	3.90	12.40	36.40	97.00	96.00	
27030U	Siam Queen Thai Untreated	7.00	22.25	65.35	174.25	173.25	
Red, Prospera® DMR							
27042U	Untreated	13.00	41.60	122.25	326.00	325.00	
Borage							
27004U	Borage Untreated	3.50	4.35	12.60	33.55	32.55	
Catnip							
27509U	Catnip Untreated	3.00	7.05	20.65	55.00		
Chervil							
27005U	Chervil Untreated		3.50	9.40	25.00	24.00	
Chives							
27510U	Garlic Untreated	3.50	8.50	24.90	66.35	65.35	64.35
Coriander / Cilantro							
27002U	Calypso Untreated		3.00	4.00	10.60	9.60	8.60
27013	Santo		3.75	6.40	17.00	16.00	15.00
Dill							
27007U	Bouquet Untreated		3.50	6.70	17.85	16.85	15.85
Fennel							
27008U	Fennel Florence Untreated		4.20	12.25	32.55	31.55	
Lavender							
27502U	Lavender Vera Untreated		7.30	23.30	68.50	182.55	181.55
Marjoram							
27009U	Marjoram Sweet Untreated		10.35	30.40	81.00	80.00	
Oregano							
27503U	Oregano Vulgare Untreated		6.70	21.40	62.90	167.65	166.65
Parsley							
35012	Gigante d'Italia		5.25	7.30	20.75	19.75	18.75
Peppermint							
27504U	Peppermint Untreated		28.75	91.95	270.40	721.00	720.00
Rosemary							
27505U	Rosemary Untreated		29.95	95.80	281.65	751.00	750.00
Sage							
27506U	Sage Untreated		12.30	35.80	95.35	94.35	
Summer Savory							
27011U	Summer Savory Untreated		4.20	12.00	31.90	30.90	

HERBS FOR THE PROFESSIONAL

M=1,000 seeds

Price per 1,000 seeds (M)		1M	5M	25M	100M
Basil					
27003	Eleonora	3.55	2.05	0.80	0.30
27035	Emily	3.60	2.10	0.85	0.35
Everleaf Emerald					
27019	Towers	22.00	20.50	19.25	18.75
27006	Everleaf Genovese	22.00	20.50	19.25	18.75
27033	Genoveser	3.55	2.05	0.80	0.30
27040	Rosie	3.65	2.15	0.90	0.40
Chives					
27515	Nelly	3.60	2.10	0.85	0.35
27514	Staro	3.60	2.10	0.85	0.35
Dill					
27516	Green Sleeves	3.45	1.95	0.70	0.20
Thyme					
27508U	German Winter Untreated	3.80	2.30	1.05	0.55



BLACK MAGIC



BLUE RIDGE



PIGEON PURPLE



PIGEON RED



PIGEON VICTORIA



PIGEON WHITE

KALE			
Item #	▼ Variety	Height	Features
Fresh Market 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			
28001	Dwarf Blue Curled Scotch	12 - 14"	Tightly curled, dark blue color used many times for decoration of salad bars.
28004	Red Russian	24 - 36"	The most tender, mild flavored kale variety. Will wilt soon after harvest; should be cooled or consumed promptly.
28002	Siberian	12 - 15"	Very hardy, grown mostly in the South. Large coarse leaves with frilled edges. Bluish green.
Ornamental Flowering Varieties			
28505	Pigeon Purple Flowering Kale ^{F1}		A unique series of ornamental kales for the garden landscape and combination planters. Compact, dwarf plants with uniform, round shaped, solid heads and slightly waved leaves. Heads begin to show colors on the central leaves when the air temperature regularly drops below 55 - 60° F. Plant height 6 - 10 inches.
28506	Pigeon Red Flowering Kale ^{F1}		
28507	Pigeon Victoria Flowering Kale ^{F1}		
28508	Pigeon White Flowering Kale ^{F1}		

KALE		M=1,000 seeds			
Price per 1,000 seeds (M)		1M	5M	25M	100M
28005	Black Magic	3.90	2.85	2.10	1.60
28504	Blue Ridge	10.65	9.60	8.85	8.35
Priced per package		4 oz.			
Priced per pound					
in these package sizes			1#	5#	25#
28001U	Dwarf Blue Curled Scotch <small>Untreated</small>	6.90	15.75	15.25	
28004U	Red Russian <small>Untreated</small>	14.50	32.25	31.75	31.50
28002U	Siberian <small>Untreated</small>	6.90	15.75	15.25	15.00
Priced per package		500 Seeds	1,000 Seeds		
Ornamental Flowering Kale					
28505U	Pigeon Purple Flowering Kale <small>Untreated</small>	13.30		21.00	
28506U	Pigeon Red Flowering Kale <small>Untreated</small>	13.30		21.00	
28507U	Pigeon Victoria Flowering Kale <small>Untreated</small>	13.30		21.00	
28508U	Pigeon White Flowering Kale <small>Untreated</small>	13.30		21.00	



KOLIBRI



QUICKSTAR



TADORNA



SAVE WITH CASH DISCOUNTS

The earlier you order the more you'll receive!

See page 154 for all of the details.

November	7%
December	6%
January	5%
February	4%
March	3%
April	2%

KOHLRABI			
Item #	▼ Variety	Days	Features
<i>Fresh Market Varieties</i>			
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.
29005	Winner Improved ^{F1}	57	A medium early, higher yielding hybrid than Grand Duke with larger bulbs and later to pithiness.

LEEK			
Item #	▼ Variety	Days	Features
30903	Large American Flag	85	Heritage Variety. Used for flavoring soups. 8 - 10" stems, mild flavor.
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.

KOHLRABI		M=1,000 seeds			
<i>Price per 1,000 seeds (M)</i>		1M	5M	25M	100M
29002	Kolibri	20.55	20.00	19.50	19.00
29004	Quickstar	9.70	9.15	8.65	8.15
29005	Winner Improved	7.05	6.50	6.00	5.50

LEEK		M=1,000 seeds		
<i>Priced per package</i>		1 oz.	4 oz.	1#
30903U	Large American Flag ^{Untreated}	3.80	13.70	36.45
<i>Price per 1,000 seeds (M)</i>		1M	10M	100M
30908P	Tadorna ^{Pelleted}	7.25	7.00	6.80

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

A
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CHEF'S DELIGHT pg.70

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" - 1/4" 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.



ALKINDUS

HARMONY **NEW**

MERIDIAN



BERGAM'S GREEN



NEW RED FIRE



RED MIST



BREEN



TETON

POST HARVEST FINANCING AVAILABLE

Options include 0% interest with no payments due until December 2025.

The best rates are available before 12/31/2024.

See page 155 for all of the details.

**JOHN DEERE**
FINANCIAL**0%**

LETTUCE		
Item #	Variety	Features
Butterhead		
30309	Alkindus Red	A mid-sized variety with beautiful dark red color which is suitable for full season production.
30516 NEW	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.
30013	Red Mist Red & Green	Early variety with nice color contrast between red and green and high bolting tolerance. Also has moderate cold tolerance and strong tolerance to heat. Harvest summer to fall. Adapted for all major lettuce growing regions.
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 Heart		
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		
Price per 1,000 seeds (M)		5M	100M	500M
Butterhead				
30309P	Alkindus Primed/Pelleted	6.85	6.50	6.25
30516P	Harmony Pelleted	3.80	3.45	3.20
Iceberg				
30705P	Meridian Pelleted	3.50	3.15	2.90
Leaf				
30304P	Bergam's Green Primed/Pelleted	2.90	2.55	2.30
30016P	New Red Fire Pelleted	2.70	2.35	2.10
30016	New Red Fire M.I. RAW	1.55	1.20	0.95
30013P	Red Mist Pelleted	2.95	2.60	2.35

LETTUCE		M=1,000 seeds		
Price per 1,000 seeds (M)		5M	100M	500M
Romaine				
30214P	Breen Pelleted	6.05	5.70	5.45
30514P	Margarita Pelleted	2.25		
30215P	Teton Primed/Pelleted	3.05	2.70	2.45
Romaine Heart				
30203P	Arroyo Pelleted	3.20	2.85	2.60

LETTUCE		BUTTERHEAD Heritage Varieties	
Item #	▼ Variety	Days	Features
30501	Bibb	60	Dark green with golden yellow interior. Small rosette 3 ½" in diameter.
30502	Buttercrunch	66	Similar fine flavor as Bibb, but more heat tolerant. Crisp, tender, sweet and slow to bolt.
30510	Merville de 4 Seasons	64	Large, ruby-tipped leaves surround tightly folded green hearts. Has crispy, fine flavor.
30034	Speckles	50	A red speckled green butterhead that originated from the Mennonites who brought it with them from Germany and Holland.
30503	Tom Thumb	65	Delicate, miniature butterheads. Perfect single serving size. Excellent flavor, crisp and sweet.

LETTUCE		CRISPHEAD Heritage Varieties	
Item #	▼ Variety	Features	
30702	Great Lakes Mesa 659	Widely planted. Popular under most northern conditions. Best either early or late season.	
30701	Iceberg	Light green, medium sized heads that are solid. A popular variety for the home garden.	

LETTUCE		LEAF Heritage Varieties	
Item #	▼ Variety	Features	
30004	Black Seeded Simpson	Compact with light green, frilled leaves, and crisp interior. Popular home garden variety.	
30001	Chef's Delight Blend	A formula blend of leaf, butterhead, and romaine lettuces of many colors. For the home garden.	
30005	Grand Rapids	Large, bright green leaves that are broad with wavy, curled edges. Popular home garden variety.	
30036	Green Deer Tongue	An old Amish variety valued for its ruggedness and heavy production. Has sharply triangular leaves with straight edges.	
30003	Green Ice	A favorite of many. Crisp, savoyed, fringed leaves are glossy green. Very slow to bolt.	
30025	Lollo Rossa	A mild flavored, medium green with red edged leaves for garnishes. An unusual Italian lettuce.	
30006	Oak Leaf	Leaves shaped similar to an Oak leaf. Withstands heat without becoming bitter.	
30007	Prizehead	Loose curled, frilly outer leaves with inner leaves a medium green color, crisp and tender.	
30027	Red Deer Tongue	Pretty, tongue-like, red blushed leaves with a plant that is larger than green Deer Tongue. Forms nice heads, great in cool weather. Amish heirloom.	
30002	Red Sails	An AAS winner. Large, full, maroon tinged heads with wavy leaf margins.	
30023	Red Salad Bowl	A burgundy red version of Salad Bowl. Delicate leaves form a full rosette.	
30008	Salad Bowl	Similar in appearance to Oak Leaf, but leaves are lighter green and more deeply lobed. More heat resistant.	
30014	Waldmanns Green ^{MT0}	Dark green variety used many times on salad bars. Excellent for market or garden.	

LETTUCE		ROMAINE Heritage Varieties	
Item #	▼ Variety	Features	
30202	Cimmaron Red Cos	Unique dark red heading type for home garden or market.	
30515	Freckles ^{Forellenschluss}	An Austrian heirloom, gorgeous with medium green leaves that are speckled with maroon. Holds well in the heat without bolting. Excellent flavor.	
30201	Paris Island Cos	A tall, cylindrical plant with relatively firm heads. Hearts blanch white. Crisp, mild sweet flavor.	

LETTUCE BUTTERHEAD

Priced per package		1 oz.	4 oz.		
Priced per pound in these package sizes				1#	5#
30501U	Bibb Untreated		9.20	22.55	22.05
30502U	Buttercrunch Untreated		8.75	21.35	20.85
30510U	Merville de 4 Seasons Untreated		8.35	20.45	19.95
30503U	Tom Thumb Untreated		11.20	27.45	26.95

LETTUCE CRISPHEAD

Priced per package		1 oz.	4 oz.		
Priced per pound in these package sizes				1#	5#
30702U	Great Lakes Mesa 659 Untreated	4.40	12.45	36.00	35.50
30701U	Iceberg Untreated		8.10	23.40	22.90

LETTUCE LEAF

Priced per package		1 oz.	4 oz.		
Priced per pound in these package sizes				1#	5#
30004U	Black Seeded Simpson Untreated		8.05	19.85	19.35
30001U	Chef's Delight Blend Untreated	8.25	21.75	60.75	60.25
30005U	Grand Rapids Untreated		8.05	19.85	19.35
30036U	Green Deer Tongue Untreated	6.20	16.30	45.50	45.00
30003U	Green Ice Untreated	5.25	13.80	38.50	38.00
30025U	Lollo Rossa Untreated	6.20	16.30	45.50	45.00
30006U	Oak Leaf Untreated		9.25	22.75	22.25
30007U	Prizehead Untreated		9.25	22.75	22.25
30027U	Red Deer Tongue Untreated	6.20	16.30	45.50	45.00
30002U	Red Sails Untreated	8.20	21.65	60.50	60.00
30023U	Red Salad Bowl Untreated		11.00	27.05	26.55
30008U	Salad Bowl Untreated		10.60	26.05	25.55
30014U	Waldmanns Green Untreated		9.05	22.30	21.80

LETTUCE ROMAINE

Priced per package		1 oz.	4 oz.		
Priced per pound in these package sizes				1#	5#
30202U	Cimmaron Red Cos Untreated	4.95	7.75	20.55	20.05
30515U	Freckles Untreated	15.70	24.75	66.00	65.50
30201U	Paris Island Cos Untreated	5.15	8.10	21.60	21.10

POST HARVEST FINANCING AVAILABLE

Options include 0% interest with no payments due until December 2025.

0%

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See page 155 for all of the details.



JOHN DEERE
FINANCIAL



SAVE WITH CASH DISCOUNTS

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November	7%
December	6%
January	5%
February	4%
March	3%
April	2%



MELONS

PLANTING

When direct seeding plant ½" - 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 149 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.

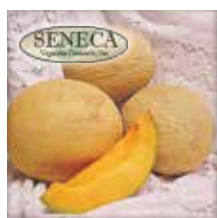
STORAGE

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

CLEOPATRA ★ pg.73



GODDESS



ACCOLADE



APHRODITE ★



ASTOUND



ATLANTIS



AVATAR ★



SUGAR RUSH



AFTERGLOW ★



SOLSTICE



ATHENA ★



ORANGE SHERBET



AMBROSIA

MELONS		CANTALOUPE Hybrid					Pricing on page 75	
Item #	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. Enhanced 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.
31016	Astound	75	6	Medium Net / Light Sutures	Orange	F ^{0,1,2} , PM	Full Slip	Another new Syngenta release with improved flesh firmness. Very similar to Accolade while maturing approximately 2 days later.
31077	Atlantis	75	6 - 8	Refined Net / Light Sutures	Deep Orange	F ^{0,1,2} , PM ^{1,2}	Full Slip	An Eastern melon with round oval shape, excellent interior quality, firm flesh and high sugar content. Works as a shipper or farm market.
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.
31076	Orange Sherbet	80	7	Heavy Net / Deep Green Sutures	Bright Orange	F ^{1,2} , PM ²	Full Slip	A gourmet, Eastern cantaloupe with outstanding eating quality and high Brix that will ship.
31001	Ambrosia	86	4	Heavy Net / No Sutures	Salmon	PM	Full Slip	Very sweet home garden variety.

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.



ARANGINA



DAMARIS



THUNDERSTRUCK



SHOCKWAVE

**ORDERS
OVER \$350
ARE SHIPPED
FREE!**

MELONS		CANTALOUPE Hybrid Extended / Long Shelf Life					Pricing on page 75	
Item#	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		MIXED/SPECIALTY Hybrid					Pricing on page 75
Item #	Variety	▼ Days	Fruit Size pounds	Net / Sutures	Flesh Color	Disease	Features
31733	Sigal	60	6	Corky Net	Ivory / Green	PM ^{1,2}	An early, large Galia type melon with superb flavor.
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.
31732	Tweety	70	4 - 6	Wrinkled Skin	Ivory / Green	A, F ^{1,2} , GSB	A sweet Canary melon with a small seed cavity and firm flesh. Very early for a Canary.
31709	Passport	75	6	Light Net / Slight Sutures	Green		An early, large, Galia type melon with delightful flavor for market or home garden. Superb flavor and earliness sets this one apart.
31704	Ambassador	76	6 - 8	Heavy Net / Slight Sutures	Ivory / 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.
31721	Lilly	85	6 - 8	Lightly Corrugated / Smooth	Light Orange	PM ^{1,2}	Very early Crenshaw hybrid with outstanding taste, high Brix, at 17%, and good yields.
31722	Sensation	85	6-8	Distinctive Netting/ No Sutures	Green and White	F ^{0,1,2} , PM	One of a kind fruit that will amaze you with its taste, texture, sweetness and aroma. These factors, along with high yield, make it the perfect roadside fruit stand item.
31705	Super Nectar	90	5-6	No Net / No Sutures	Lime Green	F, PM	Excellent main season honeydew with smooth, dense flesh and savory flavor. Vine is vigorous and adds good cover and protection from sunburn. Good Brix and firmness.



SIGAL



TWEETY



PASSPORT



AMBASSADOR



SENSATION



SUPER NECTAR

GROWER PREFERRED ALL-STARS ★ MELONS

These melon All-Stars continue to be our top performing varieties for growers. You can't go wrong with adding these to your farm.

CANTALOUPE

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 CANTALOUPE Hybrid

M=1,000 seeds

Priced per package		100	500				
Price per 1,000 seeds (M)		Seeds	Seeds	1M	5M	15M*	90M*
31015	Accolade ^{F300}	18.70	73.55	105.05	101.95	99.95	98.95
31015	Accolade ^{FI400}	18.90	74.30	106.10	103.00	101.00	100.00
31017	Afterglow	13.60	53.45	76.35	73.25	71.25	70.25
31001	Ambrosia ^{F300}	14.80	58.20	83.10	80.00	78.00	77.00
31071	Aphrodite ^{F300}	17.20	67.65	96.60	93.50	91.50	90.50
31071	Aphrodite ^{FI400}	17.70	69.55	99.30	96.20	94.20	93.20
31022	Arangina	12.85	50.50	72.10	69.00	67.00	66.00
31016	Astound ^{F300}	18.65	73.40	104.85	101.75	99.75	98.75
31016	Astound ^{FI400}	18.90	74.30	106.10	103.00	101.00	100.00
31050	Athena ^{F300}	17.40	68.45	97.75	94.65	92.65	91.65
31050	Athena ^{FI400}	17.90	70.35	100.50	97.40	95.40	94.40
31077	Atlantis ^{F300}	10.85	42.65	60.90	57.80	55.80	54.80
31084	Avatar ^{F300}	13.15	51.75	73.90	70.80	68.80	67.80
31014	Cleopatra ^{F300}	13.85	54.35	77.60	74.50	72.50	71.50
31020	Damaris ^{FI400}	17.70	69.60	99.40	96.30	94.30	93.30
31075	Goddess	15.00	58.95	84.20	81.10	79.10	78.10
31076	Orange Sherbet	10.75	42.15	60.20	57.10	55.10	54.10
31009	Shockwave	15.50	60.95	87.05	83.95	81.95	80.95
31085	Solstice	13.60	53.50	76.40	73.30	71.30	70.30
31018	Sugar Rush	15.40	60.45	86.35	83.25	81.25	80.25
31021	Thunderstruck	15.40	60.50	86.40	83.30	81.30	80.30

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

MELONS MIXED/SPECIALTY Hybrid

M=1,000 seeds

Priced per package		100	500			
Price per 1,000 seeds (M)		Seeds	Seeds	1M	5M	15M*
31704	Ambassador	12.95	51.30	73.25	70.15	68.15
31011	Earli-Dew ^{F300}	14.10	55.80	79.70	76.60	74.60
31717	Gourmet	15.05	59.65	85.20	82.10	80.10
31721	Lilly	14.90	59.00	84.25	81.15	79.15
31709	Passport	11.25	44.60	63.65	60.55	58.55
31722	Sensation	13.90	55.10	78.65	75.55	73.55
31733	Sigal	10.00	39.55	56.45	53.35	51.35
31705	Super Nectar	8.80	34.90	49.80	46.70	44.70
31732	Tweety	14.00	55.40	79.10	76.00	74.00

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

FARMORE F300 CUCURBITS SEED TREATMENT

FarMore® F300 protects against a broad spectrum of seed and seedling diseases to maximize plant stand establishment. FarMore F300 is a combination of three different but complementary fungicides providing early-season protection from diseases like Pythium, Fusarium and Rhizoctonia. The active ingredients mefenoxam (Apron XL fungicide), fludioxonil (Maxim 4FS fungicide) and azoxystrobin (Dynasty fungicide) deliver a full range of protection.

FARMORE FI400 CUCURBITS SEED TREATMENT

FI400 includes all the benefits and components of F300 with the addition of insecticide component that protects seeds and plants from a broad spectrum of sucking, chewing and soil pests. The active ingredient, thiamethoxam (Cruiser), protects plants during the plants' most vulnerable period – the first 30 to 40 days of growth. In addition, it eliminates or reduces the chance of virus transmission by certain insects. *It is recommended for cucurbits that are direct seeded.*



TASTY BITES



SUGAR CUBE ★



MELONS			PERSONAL SIZE Hybrid				
Item #	Variety	▼ Days	Fruit Size pounds	Net / Sutures	Flesh Color	Disease	Features
31727	Tasty Bites	75 - 80	1	Light Net / Light Suture	Orange	A, F ^{1,2,3} , PM	A mini mixed melon developed through a Charantais Ananas cross. Characterized by its sweet, 15% Brix, and strikingly unusual flavor, this mini melon can only be rated as gourmet and adds an attractive and unique touch to any table. Highly productive and can easily be grown and harvested.
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 with 14% Brix, and an excellent shelf life. In addition, it has a great disease resistance package. Fruit size is around 4".

MELONS			OP Heritage Varieties				
Item #	Variety	▼ Days	Fruit Size pounds	Net / Sutures	Flesh Color	Disease	Features
<i>Cantaloupe</i>							
31503	Hales Best Jumbo	83	4 - 5	Well Netted	Salmon		Good flavored, home garden melon.
31506	Honey Rock	85	4 - 5	Coarse Net	Salmon	F	Home garden melon with coarse flesh.
31508	Iroquois	87	4 - 5	Coarse Net	Deep Orange	F	Sweet flesh melon for garden or local market.
<i>Mixed/Specialty</i>							
31511	Honey Dew Green Flesh	110	4 - 6	Smooth Skin	Green		A popular light skinned, green fleshed melon.

MELONS PERSONAL SIZE Hybrid			M=1,000 seeds		
	100 Seeds	500 Seeds	1M	5M	15M*
Priced per package					
Price per 1,000 seeds (M)					
31078 Sugar Cube	15.35	60.90	86.95	83.85	81.85
31727 Tasty Bites	14.15	56.10	80.10	77.00	75.00

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

MELONS OP						
	Priced per package	1 oz.	4 oz.			
	Priced per pound in these package sizes			1#	5#	
<i>Cantaloupe</i>						
31502U Delicious 51 Untreated	5.10	9.40	24.95	23.95		
31503 Hales Best Jumbo	5.75	10.65	28.35	27.35		
31506U Honey Rock Untreated	6.55	12.15	32.35	31.35		
31508U Iroquois Untreated	5.25	9.75	25.95	24.95		
<i>Mixed / Specialty</i>						
31511U Honey Dew Green Flesh Untreated	5.85	10.85	28.90	27.90		



JAMBALAYA 2.0

POST HARVEST FINANCING AVAILABLE

Options include 0% interest with no payments due until December 2025.

The best rates are available before 12/31/2024.

See page 155 for all of the details.



JOHN DEERE
FINANCIAL

0%

MUSTARD

Item #	Variety	Days	Features
Fresh Market:			
32005	Savannah F1 Mustard Spinach	35	An early maturing, broadleaf, tendergreen mustard. Faster growing and slower bolting than OP's.
Heritage Varieties			
32004	Florida Broadleaf	50	Large, semi-upright spreading leafy plant, round/oval serrated dark green leaves. Cream colored midribs.
32001	Green Wave	45	Large upright plant, Southern Curled type, deeply frilled and finely cut leaves. Spicy flavor.
32003	Southern Giant Curled	45	Large upright plant, large bright green leaves with crumpled frilled edges. Mild but mustard flavor.

OKRA

Item #	Variety	Days	Features
33005	Burgundy	60	AAS winner. Deep burgundy plants with yellow flowers provide ornamental value with tender pods.
33002	Clemson Spineless	55	3 - 4' tall plants with 6 - 7" straight, slim, tapered pods on a spineless plant.
33003	Dwarf Long Green Pod	55	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.

MUSTARD

	Priced per package	4 oz.			
		Priced per pound in these package sizes			
		1#	5#	50#	
32004U	Florida Broadleaf Untreated	7.60	13.50	13.00	12.50
32001U	Green Wave Untreated	9.60	17.00	16.50	16.00
32005	Savannah	70.35	125.00	124.00	123.00
32003U	Southern Giant Curled Untreated	7.60	13.50	13.00	12.50

OKRA

	Priced per package	1 oz. 4 oz.			
		Priced per pound in these package sizes			
		1#	5#		
33005U	Burgundy Untreated	7.90	12.15	11.90	
33002U	Clemson Spineless Untreated	6.35	9.70	9.45	
33003U	Dwarf Long Green Pod Untreated	6.35	9.70	9.45	
33009	Jambalaya 2.0	20.40	60.35	190.00	189.00

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 ¼" deep and approximately ½" 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 149 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 hoop house 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.

RED CANYON pg.79



CANDY



DELIGHTFUL

NEW



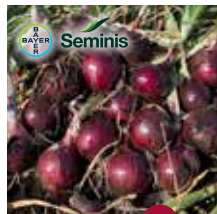
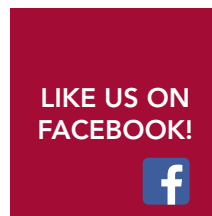
GREAT WESTERN



GREAT WHITE



SPANISH
MEDALLION



RED GARCIA

NEW



SV4643NT



TRIDENT

NEW



EVERGREEN WHITE
BUNCHING



ISHIKURA IMPROVED
BUNCHING



RED BUNCHING

ONIONS						Pricing on page 80
Item #	Variety	Maturity	Color	Bulb Shape	Storage	Features
Bulb Onions / Intermediate Day						
34020	Candy ^{F1}	100	Yellow	Globe	Short	A mild flavored Seminis onion that will perform well when plants are transplanted for extra large to jumbo sizes. Short term storage only.
34072	Delightful	108	Yellow	Globe	Short	Delightful is a late intermediate onion producing a firm large jumbo bulb that can be easily mechanically harvested. The scale is retentive and golden brown in color. The pyruvate levels on this variety are low at harvest and through storage.
34004	Great Western ^{F1}	110	Yellow	Globe	Short	Can be grown in all intermediate growing areas. Good firmness with good skin retention. It will cut a high percentage of single centers and can be direct seeded or transplanted. Strong plant growth with sizes that range from colossal to jumbo.
34021	Great White ^{F1}	103	White	Globe	Medium	A white Spanish Class onion. Great yield potential for its maturity. Has attractive, luminescent white package with a high rate of single centers.
34016	Red Canyon ^{F1}	100	Red	Globe	Medium	Red Canyon is an early choice for intermediates. It has a solid and consistent globe shape and a bold red color. Dependable yields with a high percentage of single centers containing distinct red rings.
34039	Spanish Medallion ^{F1}	115	Yellow	Globe	Short	This yellow onion is firm with excellent skin retention. It is globe to tall globe shape and jumbo to colossal in size. It is tolerant to pink root and fusarium basal rot.
Bulb Onions / Long Day						
34071	Red Garcia	115	Red	Globe	Long	This is a main-season maturity red onion with medium-long storage. It has strong, erect tops and has performed consistently well over several years of small plot trials.
34000	SV4643NT ^{F1}	112	Red	Flattened Globe	Long	Bold red colored variety with excellent yield potential. Has both superb interior and exterior color. Stores very well.
34073	Trident	115	Yellow	Globe	Long	Recommended to plant in the later long day segment for optimal vigor during the hotter and more stressful growing season. Trident is widely adaptable in all markets.
34501	White Sweet Spanish	115	White	Sweet Spanish	Short	Popular white sweet onion variety for use in home garden or market. Large fruit, for fresh use. Does not store well.
34502	Yellow Sweet Spanish	115	Yellow	Sweet Spanish	Short	Popular yellow sweet onion variety for use in home garden or market. Large fruit, for fresh use. Does not store well.
Bunching Onions						
34503	Evergreen White Bunching	120	White			Very long, white stems of delicate flavor. Hardy, winters well for early spring bunching.
34510	Ishikura 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 with an attractive deep color. This onion makes a striking presentation in the market.



BROOM CORN
SORGHUM BLEND



RED DEER



SAVE WITH CASH DISCOUNTS

The earlier you order the more
you'll receive!

See page 154 for all of the details.

November	7%
December	6%
January	5%
February	4%
March	3%
April	2%

**ORDERS
OVER \$350
ARE SHIPPED
FREE!**

ORNAMENTAL

SORGHUM / 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.
05506	Red Deer	120	The original corn used for making brooms.

ONIONS

Descriptions on page 79. M=1,000 seeds

	Price per 1,000 seeds (M)	5M	25M	100M
34020 Candy ^{F300}		5.30	4.40	3.25
34020P Candy ^{F300 Pelleted}		6.15	5.10	3.75
34072 Delightful ^{F300}		9.25	7.70	5.70
34072P Delightful ^{F300 Pelleted}		10.05	8.35	6.15
34004 Great Western		6.50	5.40	4.00
34021P Great White ^{F300 Pelleted}		10.05	8.35	6.15
34036 Red Bunching ^{DPS 3047}		8.00	6.65	4.90
34016P Red Canyon ^{F300 Pelleted}		10.15	8.45	6.25
34071 Red Garcia		7.50	6.25	4.60
34039P Spanish Medallion ^{Treated Pelleted}		7.30	6.05	4.45
34000 SV4643NT ^{F300}		7.60	6.30	4.65
34073 Trident		8.70	7.25	5.35
	Priced per package	1 oz.	4 oz.	1#
34503 Evergreen White Bunching		6.85	18.10	45.25
34510 Ishikura Improved Bunching		6.55	17.35	43.30
34501 White Sweet Spanish		7.55	20.00	50.00
34502 Yellow Sweet Spanish		7.55	20.00	50.00

ORNAMENTAL SORGHUM / BROOMCORN

	Priced per package	4 oz.	1#	5#
	Priced per pound in these package sizes			
05538U Broom Corn Sorghum Blend ^{Untreated}		17.50	50.30	47.45
05506U Red Deer ^{Untreated}		15.30	44.00	41.50



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. www.ruppseeds.com/f300



FarMore[®] treated items are highlighted in green in the price tables.

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

PARSLEY			
Item #	▼ Variety	Days	Features
35005	Forest Green	75	A curled, dark green variety with erect plants that are vigorous with good holding ability and regrowth.
35012	Gigante d'Italia	75	A plain, dark green, large leaf sized variety; very aromatic and high yielding with multiple cuts.
35010	Hamburg Rooted	90	Traditional variety grown for its tapered root which resembles a small parsnip. Roots used for flavoring.
35002	Italian Dark Green	75	Flat, heavy leaves for flavoring and seasoning. Home garden or processing.
35004	Moss Curled	75	Finely cut, deeply curled for garnishing, decoration. Commercial or home garden.

PARSNIPS			
Item #	▼ Variety	Days	Features
36001	Harris Model	110	Smooth 12" by 3" roots with a minimum of side roots. White, tender interior and a fair sized core.
36002	Hollow Crown	105	Smooth 12" by 2 3/4" roots that are well tapered and of high quality.
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#
35005U	Forest Green ^{Untreated}	5.15	7.15	20.35	
35012	Gigante d'Italia	5.25	7.30	20.75	19.75
35010U	Hamburg Rooted ^{Untreated}	5.60	7.75	22.05	
35002	Italian Dark Green	4.80	6.65	18.95	
35004U	Moss Curled ^{Untreated}	5.15	7.15	20.35	

PARSNIPS					
Priced per package		4 oz.			
Priced per pound in these package sizes				1#	5#
36001U	Harris Model ^{Untreated}		5.55	15.85	15.60
36002U	Hollow Crown ^{Untreated}		5.55	15.85	15.60
Price per 1,000 seeds (M)		5M	50M	100M	500M
36005P	Javelin ^{Primed, Pelleted}	5.55	5.00	4.75	4.40
36007P	Sabre ^{Primed, Pelleted}	5.60	5.05	4.80	4.45

PEAS SOUTHERN					
Priced per pound in these package sizes		1#	5#	25#*	50#*
12514U	Mississippi Purple Brown Crowder ^{Untreated}	11.20	7.40	7.15	6.90
12510U	Mississippi Silver Brown Crowder ^{Untreated}	10.75	7.10	6.85	6.60
12515U	Top Pick Brown Crowder ^{Untreated}	11.50	7.60	7.35	7.10
12513U	Top Pick Pinkeye ^{Untreated}	11.20	7.40	7.15	6.90

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

PEAS					
Priced per pound in these package sizes		1#	5#	25#	50#*
12021	Bolero	7.05	4.65	4.40	4.15
12009	Early Frosty	7.75	5.10	4.85	4.60
12012	Green Arrow	7.65	5.05	4.80	4.55
12004	Laxton's Progress #9	7.65	5.05	4.80	4.55
12033	Legacy	6.90	4.55	4.30	4.05
12011	Lincoln	7.75	5.10	4.85	4.60
12007	Little Marvel	8.25	5.45	5.20	4.95
12003	Maestro	8.10	5.35	5.10	4.85
12005	PLS 566	7.10	4.70	4.45	4.20
12008	PLS 595	7.10	4.70	4.45	4.20
12035	Sabre	7.05	4.65	4.40	4.15
12519	Short Story ^{PLS 534}	7.10	4.70	4.45	4.20
12019	Spring	6.90	4.55	4.30	4.05

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

PEAS SNOW PEA					
Priced per pound in these package sizes		1#	5#	25#	50#*
12104	Mammoth Melting Sugar	7.75	5.10	4.85	4.60
12105	Oregon Giant	8.10	5.35	5.10	4.85
12102	Oregon Sugar Pod II	8.25	5.45	5.20	4.95

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

PEAS SUGAR SNAP					
Priced per pound in these package sizes		1#	5#	25#	50#*
12206	Cascadia	9.90	6.55	6.30	6.05
12201	Sugar Ann	9.15	6.05	5.80	5.55
12202	Sugar Snap	7.65	5.05	4.80	4.55
Price per 1,000 seeds (M)		2M	10M	20M	80M
12209	Sugar Sprint	4.40	3.40	3.15	2.95
12207	Super Sugar Snap	3.95	2.95	2.70	2.50

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



PLS 595 ★ pg.83

PEAS

PLANTING

Direct seed 1½" - 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 149 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

PEAS							Pricing on page 81
Item #	▼ Variety	Days	Height	Pod Length	Peas per Pod	Disease	Features
<i>Fresh Market Varieties</i>							
12021	Bolero ^{PVP}	68	29"	3"	7 - 9		High yielding, sweet, medium sized. Excellent for freezer.
12033	Legacy	67	26"	3 ½"	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	★ 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	★ PLS 595	67	30"	3.6"	9 - 10	F, PM	Fresh market or processor. High yields. Great taste.
12035	Sabre	65	24"	3 ½"	9 - 10	F, RR, PM	Sabre is a normal vine type with long pods. The dark green berries produce wonderful yields - frozen, canned or fresh.
12519	★ 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.
12019	Spring ^{PVP}	55	22"	3"	6 - 7		Very early, excellent quality, dark green freezer pea.
<i>Heritage Varieties</i>							
12009	Early Frosty	63	28"	3 ½"	6	W	High yielding and high quality.
12012	Green Arrow	68	28"	4"	9 - 11	F, PM	Deep green peas, high pod set, disease resistant.
12004	Laxton's Progress #9	62	15"	4 ½"	7		Leading home garden variety. Fine flavor and quality.
12011	Lincoln	67	28"	3 ½"	7 - 8	W	Older type home garden variety.
12007	Little Marvel	63	18"	3 ½"	7 - 8	W	Fine quality, dwarf plant, dependable variety.

PEAS		SNOW		Pricing on page 81
Item #	▼ Variety	Days	Features	
12104	Mammoth Melting Sugar	74	54" tall vine, good for a trellis with 5" pods.	
12105	Oregon Giant	74	Unusually large pods on a 30" vine; pods are up to 5" long and 1" wide. Pods are dark green and tender, 20% larger than Oregon Sugar Pod II, with improved sweetness and disease resistance.	
12102	Oregon Sugar Pod II	68	30" vine with 4" pods, disease resistant.	

PEAS		SUGAR SNAP		Pricing on page 81
Item #	▼ 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.	
12202	Sugar Snap	70	Original snap pea, AAS winner. Can be shelled. 6' tall vine.	
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".	
12207	Super Sugar Snap	66	A variety that is similar to Sugar Snap with earlier maturity and better disease package. Is also 6 - 12" shorter than Sugar Snap.	

PEAS		SOUTHERN		Pricing on page 81
Item #	▼ Variety	Days	Features	
<i>Fresh Market Varieties</i>				
12514	Mississippi Purple Brown Crowder	69	A sister line replacement variety for Mississippi Shipper. It has a concentration of pods that are reddish purple at green shell stage. It is large seeded and shells very easily. A disease resistant variety.	
12510	Mississippi Silver Brown Crowder	65	A large-seeded Brown Crowder with pale green, silvery pods at the green shell stage. Low bushy plant, few runners. Pods are 6 - 6 ½", slightly curved.	
12515	Top Pick Brown Crowder	70	An upright bush type superior to the viney Mississippi Silver. Pods concentrated in top of plant. Pod color is a pale silvery green. Matures in approx. 50 - 57 days to green pea stage, pods will become a pale pink when ready to pick. Easy shelling. Good disease and virus tolerance.	
12513	Top Pick Pinkeye	70	A Pinkeye that is superior to all Pinkeyes with an upright growth characteristic.	

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 149 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 - Phytophthora 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

ARISTOTLE ★ pg.85



ARISTOTLE X3R® ★



BIG BERTHA



KING ARTHUR



MERCER



NITRO X10R



PALADIN



PLAYMAKER X10R®



PS9928302 X5R®



PS09941819 X5R® ★



PS09979325 X5R®



RED KNIGHT X3R®

ORDERS
OVER \$350
ARE SHIPPED
FREE!

PEPPERS		BELL GREEN TO RED Hybrid					Pricing on page 86
Item #	▼ Variety	Days	Flesh	Shape	Disease	Use	Features
37125	★ Aristotle X3R®	72	Thick	Jumbo Blocky	BLS ^{1,2,3} , PVY, TMV	FM	A Seminis hybrid with heavy set, thick walls, excellent disease protection and enormous fruit size. 3 - 4 lobed. The industry standard.
37006	Big Bertha	70	Thick	Elongated	TMV	FM	Very large. Popular for home garden use.
37050	King Arthur	68	Thick	Large Blocky	BLS ² , PVY, TEV, TMV	FM, P	Sets well in heat with large true blocky fruit. Very disease tolerant. Early main season. Quick to red. 3 - 4 lobe.
37065	Mercer	72	Thick	Large Blocky	BLS ^{0-3,7,8} , PHY, TMV	FM, PP, P	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, sturdy, have good cover and have high yield potential. The fruit are firm, dark green and mature to a very attractive deep red color.
37041	Nitro S10 X10R®	75	Thick	Large Blocky	BLS ⁰⁻¹⁰ , PHY, TSW,	FM, PP	Nitro S10® is a high quality, mid maturing hybrid suited for place pack. It is adapted to summer production in the northeast and suited for production where bacterial leaf spot is a concern. The fruit have good size uniformity and are smooth, firm, glossy dark green and mature to red color. Nitro S10 benefits from a nutritional management program that helps build a productive plant.
37089	Paladin	72	Thick	Jumbo Blocky	PHY, TMV	FM	The first phytophthora root rot resistant hybrid bell pepper from Syngenta. Fruit are in the large fruit class and are high quality. Has a medium tall plant.
37031	Playmaker X10R®	75	Thick	Blocky	BLS ⁰⁻¹⁰ , PHY	FM, PP	First commercial variety with intermediate resistance to BLS 0-10 and phytophthora blight. Bred and developed for the Northeast. Dark green, anthocyaninless fruits. High yield potential.
37156	PS 9928302 X5R®	75	Thick	Jumbo Blocky	BLS ^{1,2,3,4,5} , TMV ^{1,2,3}	FM	A large robust plant, anthocyaninless, very large fruit, and dark green color.
37161	★ PS 09941819 X5R®	75	Thick	Jumbo Blocky	BLS ^{1,2,3,4,5} , PHY	FM	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 epidermal separation.
37010	PS 09979325 X10R®	72	Thick	Jumbo Blocky	BLS ¹⁻¹⁰ , TMV	FM, PP	Early concentrated fruit set. Very dark green fruit. Prolific setting ability. High marks in recent trials.
37119	Red Knight X3R®	63	Thick	Large Blocky	BLS ^{1,2,3} , PVY	P	A Seminis medium to large blocky hybrid. Early to red, like North Star, with resistance to BLS races 1, 2 and 3.
More varieties on the next page -->							



REDFISH X10R®



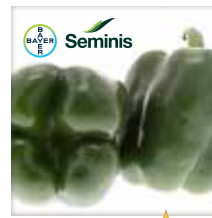
REGULATOR



SAILFISH X10R®



SPRINTER



TARPON X10R®



TURNPIKE X5R®

PEPPERS		BELL GREEN TO RED Hybrid					
Item #	▼ Variety	Days	Flesh	Shape	Disease	Use	Features
37118	Red Wonder	75	Thick	Large Blocky	TMV	FM	Especially suited for the bedding plant growers for home garden sales.
37048	Redfish X10R®	76	Thick	Blocky	BLS ⁰⁻¹⁰ , PHY	FM	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 0-10 with phytophthora control.
37047	Regulator	73-75	Thick	Blocky	BLS ¹⁻¹⁰ , TMV	FM, PP	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 Eastern US, both in main season spring and fall. Regulator features a strong plant with good cover and a great fruit uniformity.
37046	Sailfish X10R®	Early	Thick	Blocky	BLS ⁰⁻¹⁰ , PHY, TMV	FM, P	An early red bell pepper for fresh market, with high-quality, blocky smooth fruit, and excellent red color.
37014	Sprinter	Early	Medium Thick	Blocky	TMV ⁰⁻³	FM, PP	Produces quality yields of uniform fruit over a long harvest window. Compact plants. It sets fruit well under row cover. Strong against blossom-end rot and russetting. Turns red early.
37042	Tarpon X10R®	Main	Thick	Large Blocky	BLS ⁰⁻¹⁰ , PHY, TMV	FM, PP	Tarpon is a main-season hybrid with X10R® technology and intermediate resistance to phytophthora blight for the northeast and midwest United States and eastern Canada. Tarpon has a compact plant and produces dark green, smooth blocky fruits.
37023	Turnpike X5R®	72	Thick	Blocky	BLS ^{1,2,3,4,5,7,9} , PHY, TMV	FM	Extra large sized fruit with massively thick walls. Provides industry leading potential for yield.

PEPPERS BELL GREEN TO RED Hybrid							M=1,000 seeds
Priced per package		100 Seeds	500 Seeds				
Price per 1,000 seeds (M)				1M	5M	25M	50M
37125	Aristotle X3R™ F300	17.60	77.85	111.15	102.90	98.00	94.20
37125P	Aristotle X3R™ F300 Pellet	17.70	78.25	111.75	103.45	98.50	94.70
37035	Autry	20.50	90.65	129.50	119.90	114.15	109.75
37006	Big Bertha	11.30	49.85	71.15	65.85	62.70	60.25
37050	King Arthur	10.75	47.45	67.75	62.70	59.70	57.40
37065	Mercer F300	17.90	79.10	113.00	104.60	99.60	95.75
37060P	Ninja S10 with X10R F300 Pellet	17.90	79.00	112.80	104.40	99.40	95.55
37041	Nitro S10 F300	19.40	85.75	122.50	113.40	108.00	103.80
37089	Paladin	15.00	66.35	94.75	87.70	83.50	80.25
37031	Playmaker with X10R F300	19.75	87.25	124.60	115.35	109.85	105.60
37156P	PS 9928302 with X5R F300 Pellet	18.55	81.95	117.05	108.35	103.15	99.15
37161	PS 09941819 with X5R F300	18.70	82.55	117.90	109.15	103.95	99.95
37161P	PS 09941819 with X5R F300 Pellet	18.80	83.00	118.55	109.75	104.50	100.45

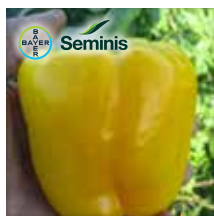
PEPPERS BELL GREEN TO RED Hybrid							M=1,000 seeds
Priced per package		100 Seeds	500 Seeds				
Price per 1,000 seeds (M)				1M	5M	25M	50M
PS 09979325							
37010	X10R F300	18.95	83.75	119.60	110.70	105.40	101.30
PS 09979325 X10R							
37010P	F300 Pellet	19.05	84.10	120.10	111.20	105.90	101.80
37119	Red Knight X3R™	14.15	62.45	89.20	82.55	78.60	75.55
37118	Red Wonder	13.95	61.60	88.00	81.45	77.55	74.55
37118P	Red Wonder Pelleted	14.05	62.10	88.65	82.05	78.10	75.05
37048	Redfish	18.15	80.15	114.45	105.95	100.90	97.00
37047	Regulator with X10R	18.65	82.40	117.70	108.95	103.75	99.75
37046	Sailfish with X10R	19.40	85.65	122.35	113.25	107.85	103.70
37014	Sprinter	63.20	279.45	399.20	369.60	352.00	338.45
37025	SV3255PB with X10R F300	20.40	90.20	128.80	119.25	113.55	109.15
37042	Tarpon with X10R F300	19.50	86.10	123.00	113.85	108.40	104.20
37042P	Tarpon with X10R F300 Pellet	19.55	86.45	123.50	114.35	108.90	104.70
37023	Turnpike	19.40	85.65	122.30	113.20	107.80	103.65
* Multiple packages may be used to fill orders for these quantities.							



ABAY



DICAPRIO



SVPB8415 X10R ★





DELIRIO




TEQUILA



VALAHIA

PEPPERS		BELL YELLOW Hybrid						
Item #	▼ Variety	Days	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 potential. Outstanding coloration. Excellent firmness and fruit quality. Continuous setting.	
37034	Dicaprio 	80	Medium Thick	Blocky Bell	TMV ^{0,3} , TSW	FM		
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.	

PEPPERS		BELL OTHER COLORS Hybrid						
Item #	▼ Variety	Days	Flesh	Color	Shape	Disease	Use	Features
37090	Delirio	68	Thick	Dark Green to Bright Orange	Medium Blocky	TM ⁰	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, TMV ^{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	Ivory 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.

PEPPERS BELL YELLOW Hybrid		M=1,000 seeds					
Priced per package		100 Seeds	500 Seeds				
Price per 1,000 seeds (M)				1M	5M	25M	50M
37015	Abay	18.85	83.25	118.90	110.05	104.80	100.75
37034	Dicaprio	83.75	370.45	529.20	490.00	466.65	448.70
37108	Early Sunsation X3R	13.90	61.30	87.55	81.05	77.15	74.15
37045	SVPB8415 X10R	20.00	88.35	126.20	116.85	111.25	106.95

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

PEPPERS BELL OTHER COLORS Hybrid		M=1,000 seeds					
Priced per package		100 Seeds	500 Seeds				
Price per 1,000 seeds (M)				1M	5M	25M	50M
37083	Bianca	20.75	91.60	130.80	121.10		
37090	Delirio	20.15	89.05	127.20	117.75	112.10	107.75
37013	Milena	63.05	278.80	398.25	368.75	351.15	337.60
37088	Tequila	23.35	103.10	147.25	136.30	129.80	124.80
37550	Valahia	11.25	49.60	70.80	65.55	62.40	60.00

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



CORNITO ARANCIA



CORNITO GIALLO



CORNITO ROSSO



LEMON DELITE NEW




ORANGE DELITE NEW



RUBY DELITE NEW

PEPPERS		BELL OP Heritage Varieties					
Item #	▼ Variety	Days	Flesh	Color	Shape	Disease	Features
37225	Big Red	75	Thick	Green to Red	Large Blocky		An OP example of those expensive red peppers found in the supermarkets today. Very sweet. 3 - 4 lobe.
37206	California Wonder 300	74	Thick	Green to Red	Jumbo Blocky	TMV	A well known Cal. Wonder type.
37228	Keystone Resistant Giant #3	74	Thick	Green to Red	Jumbo Blocky	TMV	Good market variety. 4 lobe.
37217	Purple Beauty	74	Thick	Purple	Medium Blocky	TMV	A purple pepper variety for specialty markets. 3 - 4 lobe.
37226	Sunbright	75	Thick	Green to Yellow	Large Blocky		A yellow sister to Big Red. Sweet. 5 x 7".

PEPPERS		SWEET CONES Hybrid 					
Item #	▼ Variety	Days from Transplant	Flesh	Color	Size	Disease	Features
<i>Cornito Series</i>							
37199	Cornito Arancia	80	Medium	Orange	1 ½ x 5"		A half-size Corno di Toro type pepper. Very early and attractive. Grow and sell them individually, or as mixed colors, loose or in a clamshell. Exceptionally sweet, perfect for grilling and roasting.
37195	Cornito Giallo	80	Medium	Yellow	1 ½ x 5"		
37198	Cornito Rosso	80	Medium	Red	1 ½ x 5"		
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.
<i>Delite Series</i>							
37200 NEW	Lemon Delite	60-65	Thick	Yellow	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.
37201 NEW	Orange Delite	58-65	Thick	Orange	1 ½ x 3"	TMV ⁰	
37202 NEW	Ruby Delite	60-65	Thick	Red	1 ½ x 3"	TMV ⁰	
37203 NEW	Delite Blend						A blend of the three Delite sweet cones.
<i>Sweetie Series</i>							
37190	Sweetie Orange	70	Thick	Orange	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 field and protected culture.
37191	Sweetie Red	70	Thick	Red	2 ½ - 3" long		
37192	Sweetie Yellow	70	Thick	Yellow	2 ½ - 3" long		
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.
<i>Other Sweet Cones</i>							
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 heat.
37176	Yellow Sparkler	70	Medium	Yellow	1 x 3"	TMV ⁰	Sweet mini "snack" pepper with fantastic flavor. Two lobed fruit with very few seeds. Performs well in low to mid-tech protected culture as well as open field.



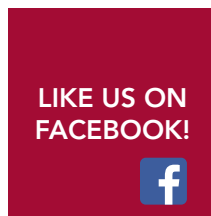
SWEETIE ORANGE



SWEETIE RED



SWEETIE YELLOW



ORANOS



YELLOW SPARKLER

GROWER PREFERRED ALL-STARS ★ PEPPERS

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 Phytophthora 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 Phytophthora. 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.

SWEET BANANAS

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.

PS11435810 jalapeno has been a standard for many growers who are looking for larger fruit to compliment Mammoth. PS11435810 has lower heat level and does tend to check earlier for those customers who want that traditional mature jalapeno look.

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.



Liz Meredith
Vegetable Consultant

PEPPERS BELL OP

	Priced per package	1/2 oz.	1 oz.	4 oz.	1#
37225 Big Red		12.65	18.45	58.45	169.30
37206 California Wonder 300		8.40	12.20	38.65	112.00
37228 Keystone Resistant Giant #3		8.40	12.20	38.65	112.00
37217 Purple Beauty		16.05	23.40	74.20	215.05
37226 Sunbright		16.05	23.40	74.20	215.05

PEPPERS SWEET CONES Hybrid

M=1,000 seeds

	Priced per package	100 Seeds	500 Seeds				
	Price per 1,000 seeds (M)			1M	5M	25M	50M
37199 Cornito Arancia		21.10	93.35	133.35	123.45	117.55	113.00
37195 Cornito Giallo		14.25	62.95	89.90	83.20	79.20	76.15
37198 Cornito Rosso		14.25	62.95	89.90	83.20	79.20	76.15
37179 Conical Blend		24.90					
37200 Lemon Delite		55.80	246.90	352.70	326.55	311.00	299.00
37201 Orange Delite		55.80	246.90	352.70	326.55	311.00	299.00
37202 Ruby Delite		55.80	246.90	352.70	326.55	311.00	299.00
37203 Delite Blend		65.85					
37174 Oranos		54.10	239.20	341.70	316.35	301.25	289.65
37190 Sweetie Orange		30.70	135.70	193.85	179.45	170.90	164.30
37191 Sweetie Red		30.70	135.70	193.85	179.45	170.90	164.30
37192 Sweetie Yellow		30.70	135.70	193.85	179.45	170.90	164.30
37193 Sweetie Blend		36.25					
37176 Yellow Sparkler		14.40	63.70	91.00	84.25	80.20	77.10

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



GODIVA



LOLA



SWEET SUNSET ★



ARUBA



GYPSY



PIMIENTO ELITE

PEPPERS		MISCELLANEOUS Hybrid				
Item #	▼ Variety	Days	Flesh	Color	Disease	Features
Banana						
37802	Godiva	70	Thick	Yellow	TSW	Medium vigorous plant with uniform fruits. Fresh and processing harvests with heavy concentrated sets.
37038	Lola	60 - 65	Thick	Light Green to Red	BLS ^{0-3,7,8} , TSW	Widely adapted variety well suited where bacterial leaf spot or TSWV are a concern. High yield potential of large and extra-large fruit. Plants are medium strong and vigorous with good cover.
37082 ★	Sweet Sunset X3R®	70	Thick	Light Yellow to Red	BLS ^{0-3,7,8}	Sweet Sunset has a good disease resistance package, high yield potential and is easy to grow. Used for 2nd early in the processing industry. Also known as SV3782PP.
Cherry						
37120	Cherry Pick	68	Thick	Green to Red	TMV	A higher yielding, uniform, sweet cherry hybrid from Seminis. A more vigorous plant than the OP's.
Cubanelle						
37072	Aruba	64	Medium	Lime Green		A mild flavored, early, highly uniform Cubanelle hybrid from Syngenta that out-sizes competing varieties. Continuous setting for a long harvesting season, 7 1/2".
37021	Biscayne	65 - 70	Medium	Light Yellow		Cubanelle-type hybrid for fresh market. Large pendant fruit for frying, 2 lobed.
37005	Gypsy	60 - 65	Medium	Light Yellow to Red	TMV	AAS winner. Early, high yielding, good flavor.
37123	Key West X3R®	70	Thick	Light Green to Red	BLS ^{1,2,3}	A Seminis BLS resistant Cubanelle hybrid with large sized fruit. Compare to Biscayne, 6 1/2 x 2 1/2".
Pimiento						
37059	Pimiento Elite	72	Thick	Green to Red	TMV	A heart shaped hybrid sweet pepper. Fruit matures from green to red, measures 3" x 3" and tapers to a blunt end. High yield potential.

POST HARVEST FINANCING AVAILABLE

Options include 0% interest with no payments due until December 2025.

The best rates are available before 12/31/2024.

See page 155 for all of the details.



JOHN DEERE
FINANCIAL

0%



SAVE WITH CASH DISCOUNTS

The earlier you order the more you'll receive!

See page 154 for all of the details.

November	7%
December	6%
January	5%
February	4%
March	3%
April	2%

PEPPERS		MISCELLANEOUS OP Heritage Varieties				
Item #	▼ Variety	Days	Flesh	Color	Shape	Features
37216	Cubanelle	65	Medium	Yellow to Green, Orange to Red	Banana	Frying type with attractive fruit for home garden or market.
37316	Red Baby ^{Bell}	60	Thick	Green to Red	Miniature Bell	A great tasting miniature 1 ¼" x 1 ¼" bell with great flavor. 3 lobe.
37209	Sweet Banana	77	Medium Thin	Yellow to Red	Banana	Popular garden variety, very productive.
37212	Sweet Cherry	78	Medium Thick	Green to Red	Round	Home garden or processing, pickling.

PEPPERS MISCELLANEOUS Hybrid				M=1,000 seeds			
Priced per package		100 Seeds	500 Seeds				
Price per 1,000 seeds (M)				1M	5M	25M	50M
Banana							
37802	Godiva	11.70	51.65	73.75	68.25	65.00	62.50
37038	Lola	13.15	58.05	82.90	76.75	73.05	70.20
37166	Sopron	10.45	46.05	65.75	60.85	57.95	55.70
37082	Sweet Sunset ^{X3R*}	13.25	58.45	83.50	77.30	73.60	70.75
Cherry							
37120	Cherry Pick	11.15	49.15	70.15	64.95	61.85	59.45
Cubanelle							
37072	Aruba	12.00	53.05	75.75	70.10	66.75	64.15
37021	Biscayne	9.95	43.85	62.60	57.95	55.15	53.00
37131	Doblon	9.25	40.85	58.35	54.00	51.40	
37005	Gypsy	8.65	38.15	54.45	50.40	48.00	46.15
37123	Key West ^{X3R*}	15.85	69.95	99.90	92.50	88.05	84.65
Pimiento							
37059	Pimiento Elite	8.25	36.40	51.95	48.10	45.80	44.00
* Multiple packages may be used to fill orders for these quantities.							

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

PEPPERS MISCELLANEOUS OP Heritage Varieties						
	<i>Priced per package</i>	250 Seeds	500 Seeds	M=1,000 seeds		
	<i>Price per 1,000 seeds (M)</i>			1M	5M	50M
37316	Red Baby ^{Bell}	5.85	7.90	10.50	7.00	5.80
	<i>Priced per package</i>	1/2 oz.	1 oz.	4 oz.		
	<i>Priced per pound in these package sizes</i>				1#	5#
37216	Cubanelle	7.55	10.90	34.60	100.25	98.05
37209	Sweet Banana	8.30	12.00	37.95	109.90	107.50
37212	Sweet Cherry	8.90	12.85	40.75	118.05	115.50
* Multiple packages may be used to fill orders for these quantities.						

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



MAMMOTH ★ pg.95

PEPPERS (Hot)

ANAHEIM (Hatch - New Mexican chili)

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.

ANCHO (Poblano)

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 pungent. The pepper of choice to make chili rellenos.

CAYENNE

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, sauces and dishes.

CHERRY

Like the name suggests, round or slightly flattened, green to red, hot or sweet. Similar use to wax pepper.

HABANERO (Habanero-Scotch Bonnet-Bahamian-Jamacian-Ghost)

In this species, diversity is enormous. Popular in Jamaica, Yucatan and Brazil. Very, very hot and persistent, but aromatic. Fruit are 1 - 2½" 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 than other pepper types. Ghost peppers are subconical to conical shape measuring 2.5 to 3.5 inches in length. They are 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 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.

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 2½" long by ½" 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 ½" 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.



CHARGER



LAMBO



SPITFIRE



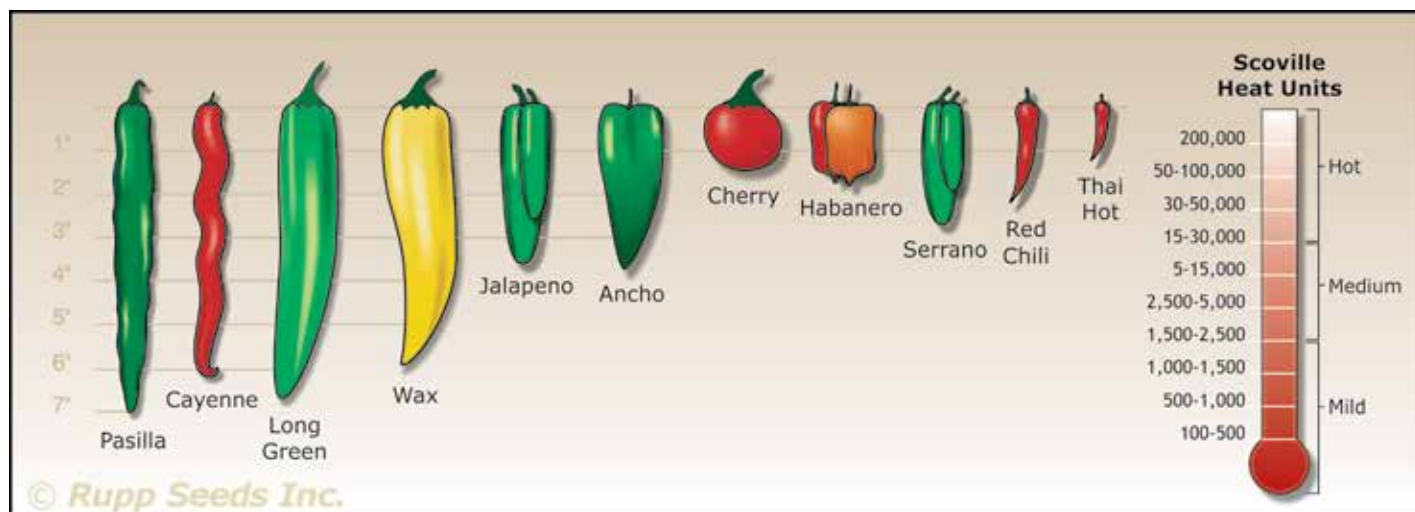
SAN ARDO




SARGENTO



TIBURON ★



PEPPERS			HOT Hybrid					Pricing on page 94	
Item #	▼ Variety	Days	Flesh	Color	Relative Scoville Rating	Disease	Use	Features	
Anaheim									
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	PHY	FM	Only known Anaheim hybrid with phytophthora resistance. Large fruit size.	
Ancho / Poblano									
37463	Carranza	70		Dark Green to Red	200 to 300		FM	Selected for its performance in heat. Main use is for fresh when green and dried when red.	
37447	San Ardo	75	Thick	Dark Green	1,500 to 4,000	TMV	FM	A vigorous plant that offers excellent cover for its dark green fruit. Multiple branches allow for higher yields per plant.	
37457	Sargento	80-85	Thick	Glossy Dark Green to Red	350 to 1,750	PHY	FM	An extra-large fruited poblano ^{Ancho} with very good quality that 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.	
37413	Mesilla	70	Thick	Green to Brilliant Red	2,000 to 4,000	PVY, TEV, TMV	FM, P	A large thick cayenne hybrid with superior disease resistance and higher yields than OP's.	
More varieties on the next page -->									



ARAPAHO



BOMBITA



TIME BOMB



REY AKUL



BLAZING BANANA



INFERNO ★

PEPPERS

HOT Hybrid

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

PEPPERS HOT Hybrid

M=1,000 seeds

	<i>Priced per package</i>	100 Seeds	500 Seeds				
	<i>Price per 1,000 seeds (M)</i>			1M	5M	25M	50M*
Anaheim							
37412	Charger	14.40	63.65	90.90	84.15	80.10	77.00
37546	Lambo	14.40	63.65	90.90	84.15	80.10	77.00
37462	Spitfire	12.05	53.10	75.80	70.15	66.80	64.20
Ancho							
37463	Carranza	11.10	48.90	69.85	64.65	61.55	59.15
37447	San Ardo	9.00	39.70	56.65	52.45	49.95	48.00
37457	Sargento	12.15	53.55	76.45	70.75	67.35	64.75
37455	Tiburón	8.40	37.00	52.85	48.90	46.55	44.75
37425	Trident ^{F300}	11.75	51.95	74.15	68.65	65.35	62.80
Cayenne							
37458	Arapaho ^{Cheyenne}	12.00	52.90	75.55	69.95	66.60	64.00
37413	Mesilla	11.30	49.80	71.10	65.80	62.65	60.20

PEPPERS HOT Hybrid

M=1,000 seeds

Priced per package		100 Seeds	500 Seeds				
Price per 1,000 seeds (M)			1M	5M	25M	50M*	
Hot Cherry							
37467	Bombita	14.95	66.05	94.35	87.35	83.15	79.95
37417	Time Bomb	14.65	64.70	92.40	85.55	81.45	78.30
Habanero							
37495	Rey Akul	13.10	57.85	82.60	76.45	72.80	70.00
37432	Rey Pakal	13.10	57.85	82.60	76.45	72.80	70.00
37466	Rey Kawiil	13.10	57.85	82.60	76.45	72.80	70.00
Hot Wax							
37422	Blazing Banana	12.90	57.05	81.45	75.40	71.80	69.00
37408	Inferno	11.25	49.60	70.80	65.55	62.40	60.00
* Multiple packages may be used to fill orders for these quantities.							

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



JEDI



MAMMOTH ★



PS11435810 ★



RING MAXX **NEW**



SV3198HJ X3R★



SV8066HJ X3R®



TALON



TRICKSTER



TZOTZIL

POST HARVEST FINANCING AVAILABLE

Options include 0% interest with no payments due until December 2025.

The best rates are available before 12/31/2024.

See page 155 for all of the details.



JOHN DEERE
FINANCIAL

0%

PEPPERS		HOT Hybrid						
Item #	▼ Variety	Days	Flesh	Color	Relative Scoville Rating	Disease	Use	Features
<i>Jalapeño</i>								
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.
37401	★ PS 11435810	60	Very Thick	Dark Green to Red	1,800 to 2,500	BLS 0,3,7,8	FM, P	Jumbo, blocky, dark green fruit for fresh market. Continuous setting ability. Good yields and high quality.
37494	NEW Ring Maxx	60-75	Thick	Dark Green	750 to 1,000	BLS 1-3	P	This vigorous jalapeño has medium pungency, is cylindrical and firm, has minimal cracking, and is ideal for processing markets.
37410	★ SV3198HJ X3R®	68	Thick	Dark Green to Red	750 to 1,000	BLS 0,3,7,8	FM, P	Hot nacho jalapeño 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 jalapeño flavor with no heat. Great for blending with hot jalapeños to customize heat level of salsa or hot sauce.
37451	Talon	75-80	Thick	Dark Green to Red	3,500 to 6,000	BLS 1,2,3	FM, P	Consistently produces high yields of fruit that are tolerant to anthocyanin and cracking. Vigorous plant. Very adaptable.
37479	Trickster	75	Thick	Dark Green to Red	0	BLS 1,2,3	FM, P	A hybrid No-Heat Jalapeño. 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	Phytophthora tolerant version of PS 11435810. Fruit may be a little longer and slightly more narrow than the 5810.
More varieties on the next page -->								

PEPPERS HOT Hybrid		M=1,000 seeds					
Priced per package		100 Seeds	500 Seeds				
Price per 1,000 seeds (M)				1M	5M	25M	50M*
<i>Jalapeño</i>							
37476	Jedi	12.25	54.15	77.35	71.60	68.15	65.50
37448	Mammoth	12.25	54.15	77.35	71.60	68.15	65.50
37401	PS 11435810	12.45	54.95	78.50	72.65	69.15	66.45
37494	Ring Maxx	9.85	43.45	62.05	57.45	54.70	52.55

PEPPERS HOT Hybrid		M=1,000 seeds					
Priced per package		100 Seeds	500 Seeds				
Price per 1,000 seeds (M)				1M	5M	25M	50M*
37410	SV3198HJ X3R®	12.15	53.70	76.65	70.95	67.55	64.95
37419	SV8066HJ X3R®	13.75	60.70	86.65	80.20	76.35	73.40
37451	Talon	12.25	54.15	77.35	71.60	68.15	65.50
37479	Trickster	11.90	52.50	75.00	69.40	66.05	63.50
37430	Tzotzil ^{F300}	12.15	53.55	76.50	70.80	67.40	64.80

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



BECAN



PATHFINDER

NEW



SUPER CHILI



TAKARA

PEPPERS

HOT Hybrid

Item #	▼ Variety	Days	Flesh	Color	Relative Scoville Rating	Disease	Use	Features
<i>Miscellaneous Hot</i>								
37464	Becan	68		Pale Yellow to Red	800 - 1,000	PHY	FM	Santa Fe Grande type hybrid which is used mainly for stuffing. Phytophthora tolerant conversion of Rio de Oro.
37510	Pathfinder	60-75	Thick	Dark Green	9,000	TMV ⁰ , BLS 0-3,7,8	FM	This serrano maintains its large size throughout the production 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.
37402	Super Chili	75	Thin	Green to Orange Red	40,000 to 50,000		FM, HG	AAS winner. Early, very productive. Home garden. An excellent substitute for Asian cooking.
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 internodes, 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 Hybrid

M=1,000 seeds

	100 Seeds	500 Seeds				
Priced per package						
Price per 1,000 seeds (M)			1M	5M	25M	50M*
<i>Miscellaneous Hot</i>						
37464 Becan	16.95	74.90	107.00	99.05	94.30	90.65
37510 Pathfinder	10.05	44.30	63.25	58.55	55.75	53.60
37402 Super Chili	10.25	45.35	64.75	59.95	57.05	54.85
37420 Takara	13.00	57.40	82.00	75.90	72.25	69.45

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

**SAVE WITH CASH DISCOUNTS**

The earlier you order the more
you'll receive!

See page 154 for all of the details.

November7%
December6%
January5%
February4%
March3%
April2%

**ORDERS
OVER \$350
ARE SHIPPED
FREE!**

PEPPERS		HOT OP Heritage Varieties						
Item #	▼ Variety	Days	Flesh	Color	Class Type	Relative Scoville Rating	Use	Features
37544	Anaheim Chili	75	Medium Thick	Dark Green to Red	Anaheim	900 to 3,500	FM	A pungent pepper for canning, freezing or market.
37502	Cayenne Long Slim	72	Thin	Green to Red	Cayenne	30,000 to 50,000	P	Very productive, pungent, home garden variety.
37504	Early Jalapeno	63	Thick	Green to Red	Jalapeno	4,000 to 6,000	FM, P	Uniform, hot fruit. For processing or market.
37508	Habanero	90	Thin	Light Green to Orange	Chinense	200,000	FM, P	The hottest pepper that fits both into fresh market or processing. Often used in the dried powdered form.
37543	Hot Portugal	64	Thick	Green to Bright Red	Cayenne	up to 30,000	FM, HG	Bears elongated narrow fruit, 7-8" long, glossy scarlet with superb pepper flavor and medium heat.
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 1/2 - 2" diameter fruit.
37505	Jalapeno M	73	Thick	Green to Red	Jalapeno	3,500 to 6,000	FM, P	Uniform, 3 1/2" fruit. Pungent for processing and market.
37512	Red Cherry <small>Large</small>	75	Medium Thick	Medium Green to Red	Cherry	3,500	FM, P	Processing, home garden, and pickling.
37509	Serrano	75	Medium Thin	Green to Red	Serrano	2,500 to 4,000	FM, P	Shaped like a miniature Jalapeno. Very pungent for pickling, market and sauce. Resistant to Potato Virus Y.
37531	Serrano Tampiqueno	75	Medium Thick	Green to Red	Serrano	2,500 to 4,000	FM, P	Large plant bears club shaped smooth fruit 1 1/2 in. long, medium thick walls, green to red, very pungent.

PEPPERS HOT OP Heritage Varieties		M=1,000 seeds			
Priced per package		1/2 oz	1 oz.	4 oz	1#
37544	Anaheim Chili	6.20	9.00	28.00	81.10
37502	Cayenne Long Slim	6.20	9.00	28.00	81.10
37504	Early Jalapeno	6.30	9.15	28.50	82.50
37501	Hungarian Yellow Wax	6.20	9.00	28.00	81.10
37505	Jalapeno M	6.30	9.15	28.50	82.50
37512	Red Cherry <small>Large</small>	8.20	11.90	37.15	107.60
37509	Serrano	6.20	9.00	28.00	81.10

PEPPERS HOT OP Heritage Varieties				M=1,000 seeds		
Priced per package		250 Seeds	500 Seeds			
Price per 1,000 seeds (M)				1M	5M	50M
37508	Habanero	8.95	12.15	16.20	10.80	9.00
37543U	Hot Portugal <small>Untreated</small>	7.95	10.80	14.35	9.55	7.95
37515	Pasilla Bajio	7.95	10.80	14.35		
37531	Serrano Tampiqueno	7.95	10.80	14.35	9.55	7.95
* Multiple packages may be used to fill orders for these quantities.						

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



GARNET GOLD  pg.102

PUMPKINS

PLANTING

Plant pumpkins ½" - 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 the "Pumpkin Planting/ Harvesting Timing Chart" on page 103) and the "Spacing Chart" (below) for more details.

See "Germination Chart" on page 149 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 over-plant 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 affect 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



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www.ruppseeds.com/PumpkinGuide



GROWER PREFERRED ALL-STARS ★ PUMPKINS

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.

Under ideal growing conditions, **Gold Medal** will produce fruit in the 30 lb. size category. This dark orange, large handled variety has a full vine and 90 day maturity.

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.

SMALL / PIE

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.

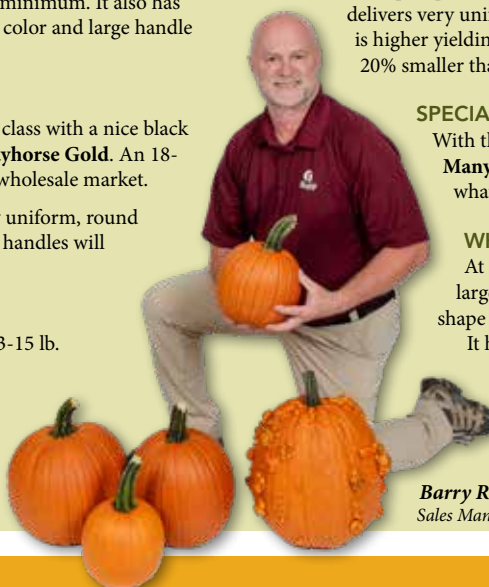
SPECIALTY

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.



Barry Rupp
Sales Manager

PUMPKINS				GIANT			
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 ^{F1}	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 ^{F1}	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.

PUMPKINS GIANT		M=1,000 seeds				
Priced per package		1 oz.	4 oz.			
Priced per pound in these package sizes				1#	5#	Seeds /lb.
38501	Dill's Atlantic Giant	18.00	47.25	142.00	139.00	1,400

PUMPKINS GIANT		M=1,000 seeds					
Priced per package		25 Seeds	100 Seeds	250 Seeds			
Price per 1,000 seeds (M)					1M	3M	Seeds /lb.
38092	Monster Smash	19.75	65.70	121.60	324.15	320.90	2,900
38007	Prizewinner ^{F1400}	31.30	104.25	193.05	514.80	511.55	1,300
38074	World of Color ^{Blend}	20.35	67.80	125.55	334.75	331.50	1,200



BELLATRIX



BODIE



CAPTAIN JACK



CRISSON



EARLY GIANT



EARLY KING

PUMPKINS		XTRA LARGE							
Item #	▼ 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, attractive orange pumpkin with a strong, dark green handle.
38125	Bodie	100	20 - 25	Dark Orange	IR	Vine	3	35	Bodie can grow almost anywhere. It's a round, dark orange pumpkin with a strong, handsome handle. North of the Ohio River, Bodie will hit the 35-count bin market, while south of the Ohio River it hits the 40-count bin market. Growing to around 25 lbs, Bodie is an excellent choice for fresh markets and wholesalers.
38551	Captain Jack	105	30+	Dark Orange		Large Vine	1 or 2	30	LIMITED SUPPLY A variety that has thick flesh and a flat bottom to help fruit stand straight under its heavy weight. Also has large embedded handle.
38124	Crissin	100	20 - 25	Medium Dark Orange	IR	Vine	3	35	Crissin is an impressive dark orange pumpkin. Its strong, dark handle makes moving this 20-25 lb ribbed pumpkin easy. Spaced properly, Crissin will fill 35-count bins all day in the upper Midwest and 40-count bins near the Ohio River. In the mountain regions of the southeast, it can grow to 27 lbs and still maintain its shape.
38009	Early Giant	95	25 - 30	Dark Orange	IR	Large Vine	2	30 - 35	Upright fruit on a productive plant with excellent orange color. Intermediate resistance to powdery mildew.
38011	Early King	90	22 - 28	Deep Orange	IR	Large Vine	2	35	Rounded fruit on a productive plant with excellent orange color. Intermediate resistance to powdery mildew.
38123	Giltedge Gold	100	18 - 24	Orange	IR	Medium Vine	2	35-40	The fruit have an elevated shape with a rough texture and dark, healthy handles. To maintain fruit weight, do not crowd the plants.
38050	Gold Medal	95	25+	Deep Orange		Large	1 or 2	30	A Rupp hybrid that is at the top of the class in appearance for the retail marketer. A large pumpkin with dark color and a great, long handle. U.S. Patent #5,811,642.
38071	Gold Medallion	110	30+	Orange		Large	1 or 2	30	A sister hybrid to Gold Medal that is 2 lbs. larger and has a larger vine. U.S. Patent #5,811,642.
38523	Gold Rush	120	20 - 35	Deep Orange		Large	1 or 2	30	A large Rupp pumpkin with handles 4" long and 3" in diameter, thick flesh and heavy. U.S. Patent #5,811,642.
38024	Gold Strike	110	27	Orange		Vine	2	35	A hybrid with round to slightly flattened fruit.
38500	Jumpin Jack	120	20 - 40	Orange		Large Very Vigorous	1 or 2	30	Very large, well handled, taller than wide variety.
38090	Large Marge	105	30 - 40	Dark Orange		Vine	1 or 2	30	An extremely large Sakata pumpkin with a large, dark, embedded handle to match the fruit size. Can set multiple fruit per plant and maintain size. Blocky round shape. Ribbed with wrinkled skin.
38537	O! Zeb's	110	20 - 30	Light Orange		Medium	2	35	A Rupp pumpkin developed in Canada. It has a unique florescent orange color and a long wispy handle that gives it a particular heirloom look. A high yielder.
38072	Phat Jack	125	50 +	Orange		Medium	1 or 2	25	A very large Jack O' Lantern. Tall with a thick handle.
38117	Quigley Gold	100	22 - 26	Dark Orange	IR	Medium Vine	2	30-35	Its rough texture with varying amounts of warts make this a great addition to fall displays. The round fruit with slight ribbing has some gold flecking and a dark handle. Harvest early for green warts.
38085	Solid Gold	100	25	Deep Orange		Medium	2	35	A Rupp hybrid that has performed very well on the farm. Has excellent color, handles and yields.



GILTEDGE GOLD



GOLD MEDAL ★



GOLD MEDALLION



GOLD RUSH



LARGE MARGE



OL ZEB'S



QUIGLEY GOLD



SOLID GOLD ★



20 KARAT GOLD



BANNACK GOLD



BAYHORSE GOLD ★



CARBONADO GOLD ★

PUMPKINS XTRA LARGE		M=1,000 seeds				
Priced per package		250 Seeds				
Price per 1,000 seeds (M)			1M	3M	25M	100M
38060	Bellatrix ^{F1400}	38.25	101.95	98.70	96.20	94.90
38125	Bodie ^{F1400}	45.10	120.20	116.95	114.45	113.15
38551	Captain Jack ^{F1400}	41.65	111.05	107.80	105.30	104.00
38124	Crisson ^{F1400}	45.10	120.20	116.95	114.45	113.15
38130	Early Captain ^{F1400}	36.00	96.00	92.75	90.25	88.95
38009	Early Giant ^{F1400}	35.90	95.65	92.40	89.90	88.60
38011	Early King ^{F1400}	36.30	96.75	93.50	91.00	89.70
38123	Giltedge Gold ^{F1400}	45.80	122.10	118.85	116.35	115.05
38050	Gold Medal	25.85	68.85	65.60	63.10	61.80
38050	Gold Medal ^{F1400}	28.20	75.15	71.90	69.40	68.10
38050U	Gold Medal ^{Untreated}	25.85	68.85	65.60	63.10	61.80
38071	Gold Medallion	18.95	50.45	47.20	44.70	43.40
38071	Gold Medallion ^{F1400}	21.30	56.75	53.50	51.00	49.70

PUMPKINS XTRA LARGE		M=1,000 seeds				
Priced per package		250 Seeds				
Price per 1,000 seeds (M)			1M	3M	25M	100M
38523	Gold Rush	14.15	37.65	34.40	31.90	30.60
38523	Gold Rush ^{F1400}	16.50	43.95	40.70	38.20	36.90
38090	Large Marge ^{F1400}	41.65	111.05	107.80	105.30	104.00
38117	Quigley Gold ^{F1400}	46.35	123.55	120.30	117.80	116.50
38085	Solid Gold	31.95	85.10	81.85	79.35	78.05
38085	Solid Gold ^{F1400}	34.30	91.40	88.15	85.65	84.35
Priced per package		1 oz.	4 oz.			
Priced per pound in these package sizes				1#	5#	25#
38024	Gold Strike	9.65	28.55	87.75	84.75	82.75
38500	Jumpin' Jack TM	8.40	24.75	76.05	73.05	71.05
38537	Ol Zeb's	7.55	22.30	68.50	65.50	63.50
38072	Phat Jack ^{F1400}	16.95	50.15	154.30	151.30	149.30

PUMPKINS		LARGE							Pricing on page 102
Item #	▼ Variety	Days	Weight pounds	Skin	Powdery Mildew	Vine	Spacing Category	Bin Count	Features
38068	20 Karat Gold ^{F1}	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 shipper market. U.S. Patent #5,811,642.
38112	Bannack Gold ^{F1}	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 well attached handle.
38061	★ Bayhorse Gold ^{F1}	100	15 - 20	Very Dark Orange	IR	Vine	3	40	Uniform, slightly elevated hybrid with strikingly gorgeous, very dark orange fruit and elongated dark handle. Can be used for roadside sales or wholesale shipping in 40 count bins. A grower favorite!
38069	★ Carbonado Gold ^{F1}	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.
More varieties on the next page -->									



EAGLE CITY GOLD



GARNET GOLD



GOLD CHALLENGER



ORANGE RAVE



WOLF

PUMPKINS

LARGE

Item #	Variety	Days	Weight pounds	Skin	Powdery Mildew	Vine	Spacing Category	Bin Count	Features
38062	Eagle City Gold ^{F1}	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 ^{F1}	100	13 - 17	Dark Orange	HR	Medium Vine	3	40	Beautiful, round fruit have heavy ribbing, strong handles and a uniform shape.
38073	Gold Challenger ^{F1}	105	20 - 24	Orange		Semi Bush	3	35 - 40	A semi-bush hybrid with a dark orange rind color, and a good handle in the 20 lb class. A very serious competitor.
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.

PUMPKINS LARGE

M=1,000 seeds

	250 Seeds	M=1,000 seeds			
		1M	3M	25M	100M
38068 20 Karat Gold	23.80	63.45	60.20	57.70	56.40
38068 20 Karat Gold ^{F1400}	26.20	69.75	66.50	64.00	62.70
38112 Bannack Gold ^{F1400}	44.55	118.75	115.50	113.00	111.70
38061 Bayhorse Gold ^{F1400}	45.10	120.20	116.95	114.45	113.15
38069 Carbonado Gold ^{F1400}	47.20	125.80	122.55	120.05	118.75
38062 Eagle City Gold ^{F1400}	40.35	107.60	104.35	101.85	100.55
38113 Garnet Gold ^{F1400}	45.30	120.75	117.50	115.00	113.70
38073 Gold Challenger	25.25	67.25	64.00	61.50	60.20
38073 Gold Challenger ^{F1400}	27.60	73.55	70.30	67.80	66.50
38001 Orange Rave ^{F1400}	39.00	103.95	100.70	98.20	96.90
38550 Wolf ^{F1400}	31.35	83.55	80.30	77.80	76.50

PUMPKINS MID SIZE

M=1,000 seeds

	250 Seeds	M=1,000 seeds				
		1M	3M	25M	100M	Seeds /lb.
38045 Gold Standard	16.75	44.60	41.35	38.85	37.55	3,100
38045 Gold Standard ^{F1400}	19.10	50.90	47.65	45.15	43.85	3,100
38045U Gold Standard ^{Untreated}	16.75	44.60	41.35	38.85	37.55	3,200
38019 Jack of All Trades	19.50	52.00	48.75	46.25	44.95	3,800
38056 Neon ^{F1400}	28.30	75.40	72.15	69.65	68.35	3,800
38034 Secretariat ^{F1400}	36.40	97.00	93.75	91.25	89.95	3,000
38076 Skidoo Gold ^{F1400}	38.50	102.60	99.35	96.85	95.55	2,800

CURIOUS ABOUT THE NAMES OF OUR PUMPKINS?

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PUMPKINS		MID SIZE								
Item #	▼ Variety	Days	Diameter Height	Weight pounds	Skin	Powdery Mildew	Vine	Spacing Category	Bin Count	Features
38045 ★	Gold Standard ^{F1}  	90	13 x 13"	16	Deep Orange		Restricted Vine	3	45	A Rupp pumpkin with good handles, high yields and deep orange color. Will blend right in with Howden to bring the average size down.
38019	Jack Of All Trades ^{F1}	90	8 x 9"	9 - 12	Orange		Semi Bush	3	50	A hybrid that is very uniform in size, has an excellent handle and is smooth with light sutures. Fruits on a very vigorous yet semi-bush plant.
38056	Neon ^{F1} 	70	7 x 8"	7 - 8	Orange		Semi Bush	4	60	The earliest maturing pumpkin we offer. Semi bush plant, very early, colors early, dark stem and high yield.
38034	Secretariat ^{F1} 	105	12 x 9"	15	Dark Orange	IR	Restricted Vine	3	45	Prolific plants produce beautiful, slightly-flattened fruit with thick handles. Works well for binned markets or road-side growers.
38076 ★	Skidoo Gold ^{F1}  	90	10 x 11"	12 - 15	Deep Orange	HR	Restricted Vine	3	45	Blocky, heavily ribbed, mid-sized hybrid with powdery mildew tolerance. Improved uniformity and color over comparable varieties. Skidoo Gold can produce high yields.

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 Maturity	Planting Date: May 1 Harvest Range	Planting Date: May 15 Harvest Range	Planting Date: June 1 Harvest Range	Planting Date: June 15 Harvest Range	Planting Date: July 1 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.



BISBEE GOLD



CORTEZ NEW



FORT KNOX ★



JACK SPRAT



PIK-A-PIE



PRANKSTER ★

PUMPKINS		SMALL / PIE							
Item #	▼ Variety	Days	Diameter Height	Weight pounds	Skin	Powdery Mildew	Vine	Spacing Category	Features
38075	Bisbee Gold ^{F1}	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	NEW Cortez ^{rp6201 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 ^{F1}	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 ^{F1}	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 ^{F1}	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 ^{F1}	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 ^{F1}	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.

PUMPKINS SMALL / PIE		M=1,000 seeds					
Priced per package		250 seed					
Price per 1,000 seeds (M)		1M	3M	25M	100M	Seeds /lb.	
38075	Bisbee Gold ^{F1400}	41.40	110.30	107.05	104.55	103.25	3,100
38126	Cortez ^{F1400}	39.35	104.85	101.60	99.10	97.80	2,500
38020	Darling ^{F1400}	38.20	101.75	98.50	96.00	94.70	4,100
38115	Fort Knox ^{F1400}	42.45	113.15	109.90	107.40	106.10	2,500
38003	Jack Sprat ^{F1400}	37.90	101.05	97.80	95.30	94.00	5,800
38038	Pik-A-Pie	17.35	46.15	42.90	40.40	39.10	3,800
38038	Pik-A-Pie ^{F1400}	19.70	52.45	49.20	46.70	45.40	3,700
38038U	Pik-A-Pie ^{Untreated}	17.35	46.15	42.90	40.40	39.10	3,800
38067	Prankster ^{F1400}	25.60	68.20	64.95	62.45	61.15	3,400

PUMPKINS SMALL / PIE		M=1,000 seeds					
Priced per package		250 seed					
Price per 1,000 seeds (M)		1M	3M	25M	100M	Seeds /lb.	
38047	Touch of Autumn	12.30	32.70	29.45	26.95	25.65	5,500
38047	Touch of Autumn ^{F1400}	14.65	39.00	35.75	33.25	31.95	5,500
38047U	Touch of Autumn ^{Untreated}	12.30	32.70	29.45	26.95	25.65	5,500
38116	Yosemite ^{F1400}	40.20	107.10	103.85	101.35	100.05	2,400
Priced per package		1 oz.		4 oz.			
Priced per pound in these package sizes				1#	5#	25#	Seeds /lb.
38507	Small Sugar ^{Asgrow Strain}	5.45	16.05	49.25	46.25	44.25	3,700



TOUCH OF AUTUMN



YOSEMITE



BATWING MIX










GOLD DUST



GOLD SPECK



JACK-B-QUIK

PUMPKINS			MINIATURE						
Item #	▼ Variety	Days	Diameter Height	Weight pounds	Skin	Powdery Mildew	Vine	Spacing Category	Features
38531	Baby Bear ^{PVP}	105	5 x 6"	1	Orange		Vine	4	An AAS winner. Larger than Jack-B-Quik, smaller than Baby Pam. Long 4" handle. Good disease tolerance.
38548	Batwing Mix	90	3"	¼	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 ^{F1}   165	95	3 ½ x 2"	1 ^{⁄8}	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 ^{F1}  	95	3 x 2"	¼	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"	¼	Orange		Medium	4	A more ribbed mini with taller and darker orange fruit. More varieties on the next page ->

PUMPKINS MINIATURE							M=1,000 seeds
Priced per package		100 seed	250 seed				
Price per 1,000 seeds (M)				1M	3M	25M	100M
38531	Baby Bear	12.10	32.20	28.95	26.45	25.15	3,700
38066	Gold Dust	19.65	52.35	49.10	46.60	45.30	6,600
38066	Gold Dust ^{F1400}	22.00	58.65	55.40	52.90	51.60	6,600
38066U	Gold Dust ^{Untreated}	19.65	52.35	49.10	46.60	45.30	6,700
38077	Gold Speck	24.45	65.10	61.85	59.35	58.05	7,000
38077	Gold Speck ^{F1400}	26.80	71.40	68.15	65.65	64.35	7,000
38077U	Gold Speck ^{Untreated}	24.45	65.10	61.85	59.35	58.05	7,000
38525	Jack-B-Quik	7.90	20.95	17.70	15.20	13.90	7,000
38525	Jack-B-Quik ^{F1400}	10.25	27.25	24.00	21.50	20.20	7,000
38042	Orangita ^{F1400}	22.50	41.60	110.90	107.65	103.85	6,500

PUMPKINS MINIATURE							M=1,000 seeds
Priced per package		100 seed	250 seed				
Price per 1,000 seeds (M)				1M	3M	25M	100M
38043	Spark	19.85	36.70	97.80	94.55	92.05	5,900
38538	Wee-B-Little	12.50	33.25	30.00	27.50	26.20	5,500
38538	Wee-B-Little ^{F1400}	14.85	39.55	36.30	33.80	32.50	5,400
38538U	Wee-B-Little ^{Untreated}	12.50	33.25	30.00	27.50	26.20	5,500
38078	WeeeeeeOne Blend ^{F1400}	27.85	74.20	70.95	68.45	67.15	7,600
38078U	WeeeeeeOne Blend ^{Untreated}	25.50	67.90	64.65	62.15	60.85	7,900
Priced per package		1 oz.	4 oz.				
Priced per pound in these package sizes				1#	5#	25#	Seeds /lb.
38548	Batwing Mix	16.60	48.90	150.35	147.35	145.35	5,800



ORANGITA



SPARK



WEE-B-LITTLE



WEEEEONE BLEND




BLUE DOLL



FOOL'S GOLD

PUMPKINS		MINIATURE							Pricing on page 105
Item #	▼ Variety	Days	Diameter Height	Weight pounds	Skin	Powdery Mildew	Vine	Spacing Category	Features
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"	½	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	95	3 x 3"	½	Orange		Bush	3	An AAS winner that can be carved and provides excellent 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	95	3 x 3" - 1 ½ x 1 ½"	½	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		SPECIALTY						Pricing on page 109
Item #	▼ Variety	Days	Diameter Height	Weight pounds	Skin	Vine	Spacing Category	Features
38012	Blue Doll ^{F1} 	100	12 x 10"	20 - 24	Blue	Very Large Vine	2	Features an exotic blue color and an almost square appearance with deep ribbing. Exhibits deep orange, sweet flesh that can be used for pies, soup, and gourmet culinary delights. Great for stacking displays.
38542	Dickinson Field 	115	14 - 18 x 12 - 14"	12 - 16	Buff Orange	Medium	4	An old, widely used pumpkin variety for the processing industry.
38114	Fool's Gold ^{F1} 	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 	90	10 x 9 ½"	12	Orange with green warts	Medium	3	Add a frightening look to your fall display with this heavily-warted variety. The green warts pop out on this orange pumpkin, making it a favorite of our trial cooperators.
38093	Goose Bumps II ^{F1} 	95	8 X 8"	8 - 12	Orange	Medium	3	Improved Goose Bumps with higher percentage of 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 Orange / Green Stripes	Medium	3	Totally hullless, the roasted seeds are delicious with a nutty texture. Compared to other hullless varieties, maturity is earlier and seed yield is exceptional.
More varieties on the next page -->								



FRIGHT



GRIZZLY BEAR



HSC151





INDIAN DOLL



JARRAHDALE



MELLOW YELLOW

PUMPKINS		SPECIALTY						Pricing on page 109	
Item #	▼ Variety	Days	Diameter Height	Weight pounds	Skin	Vine	Spacing Category	Features	
38081	Indian Doll 	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	Jarrohdale	95	10"	7 - 8	Blue	Medium	2	The favorite Australian winter squash. 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.	
More varieties on the next page -->									

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 www.ruppseeds.com/MVPG.



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. We have a very handy "Pumpkin Planting/Harvesting Timing Chart" on page 103 to assist you with your planting dates.

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.



MIDNIGHT



NAKED BEAR



NEW ENGLAND
CHEDDAR



ONE TOO MANY ★



PHANTOMITA **NEW**



PORCELAIN DOLL

PUMPKINS		SPECIALTY					Pricing on page 109	
Item #	▼ Variety	Days	Diameter Height	Weight pounds	Skin	Vine	Spacing Category	Features
38089	Midnight <small>Black Kat F1</small>	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 <small>F1</small>	112	8 ½ x 12"	15	Tan	Vine	2	Excellent for industrial, home processing like canning or pies, or 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 <small>F1</small>	110	14"	20	White Background 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.
38134	NEW Phantomita	90	3 x 2"	1-1 ½	Multi-color	Semi Bush	4	This is a great addition to Casperita, Orangita, Midnight, and Sunshine pumpkins - especially with its light green and yellow striping giving it a unique look. Fruit is disk-shaped and has deep ribbing.
38029	Porcelain Doll <small>F1</small>	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.
42967	Red Eye	110	14"	18	Red	Large Vine	2	A Rupp developed squash with excellent eating quality; will likely be used more for its decorative value.
42953	Red Warty Thing <small>Essex Turban</small>	110	14"	20	Bright Orange / Warty	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 <small>Cinderella</small>	105	15 x 6"	20	Reddish Orange	Vine	2	A unique pumpkin from France. A flattened, deeply ridged fruit. Surprising beauty, great yield and flavor. Cinderella type used for stacking displays.
38127	Scarface <small>F1</small>	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 Phantomita 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. From the same supplier as Wolf.



RED EYE



RED WARTY THING



ROUGE VIF
D'ETAMPES



SMALL WORLD OF
COLOR



SUNSHINE **NEW**



THUMPKIN

PUMPKINS SPECIALTY

M=1,000 seeds

Priced per package		100	250				
Price per 1,000 seeds (M)		Seed	Seed	1M	3M	25M	100M
38012	Blue Doll ^{FI400}	30.25	56.00	149.30	146.05	143.55	142.25
38542	Dickinson Field	3.35	6.20	16.50	13.25	10.75	9.45
38542	Dickinson Field ^{FI400}	4.65	8.55	22.80	19.55	17.05	15.75
38114	Fool's Gold ^{FI400}	23.85	44.15	117.65	114.40	111.90	110.60
38118	Fright ^{FI400}	26.75	49.50	132.00	128.75	126.25	124.95
38093	Goose Bumps II ^{FI400}	26.80	49.55	132.05	128.80	126.30	125.00
38128	Grizzly Bear ^{FI400}	26.40	48.80	130.05	126.80	124.30	123.00
38048	HSC151 ^{FI400}	14.50	26.85	71.50	68.25	65.75	64.45
38081	Indian Doll ^{FI400}	28.25	52.30	139.40	136.15	133.65	132.35
38044	Mellow Yellow ^{FI400}	26.40	48.80	130.05	126.80	124.30	123.00
38089	Midnight ^{Black KatFI400}	21.80	40.35	107.55	104.30	101.80	100.50
38030	Naked Bear	18.05	33.40	89.00	85.75	83.25	81.95
New England Cheddar							
42969		8.75	16.15	43.05	39.80	37.30	36.00
New England Cheddar ^{Untreated}							
42969U		8.75	16.15	43.05	39.80	37.30	36.00
New England Cheddar ^{FI400}							
42969		10.05	18.55	49.35	46.10	43.60	42.30
42961	One Too Many	38.30	70.90	189.00	185.75	183.25	181.95
42961U	One Too Many ^{Untreated}	38.30	70.90	189.00	185.75	183.25	181.95
42961	One Too Many ^{FI400}	39.60	73.25	195.30	192.05	189.55	188.25

PUMPKINS SPECIALTY

M=1,000 seeds

Priced per package		100	250				
Price per 1,000 seeds (M)		Seed	Seed	1M	3M	25M	100M
38134	Phantomita ^{FI400}	23.90	44.20	117.75	114.50	112.00	110.70
38029	Porcelain Doll ^{FI400}	37.30	69.05	184.05	180.80	178.30	177.00
42967	Red Eye	12.45	23.00	61.30	58.05	55.55	54.25
42967U	Red Eye ^{Untreated}	12.45	23.00	61.30	58.05	55.55	54.25
42967	Red Eye ^{FI400}	13.70	25.35	67.60	64.35	61.85	60.55
42953	Red Warty Thing	12.90	23.85	63.50	60.25	57.75	56.45
Red Warty Thing ^{Untreated}							
42953U		12.90	23.85	63.50	60.25	57.75	56.45
42953	Red Warty Thing ^{FI400}	14.15	26.20	69.80	66.55	64.05	62.75
Rouge Vif d'Etampes ^{FI400}							
38533		18.70	34.60	92.15	88.90	86.40	85.10
38127	Scarface ^{FI400}	26.80	49.55	132.05	128.80	126.30	125.00
Small World of Color							
38084		51.80	95.85	255.60	252.35	249.85	248.55
38136	Sunshine ^{FI400}	24.40	45.10	120.15	116.90	114.40	113.10
38549	Thumpkin ^{FI400}	18.10	33.45	89.15	85.90	83.40	82.10
Priced per package		1 oz.	4 oz.				
Priced per pound				1#	5#	25#	Seeds /lb.
42939	Jarrahdale	5.50	16.25	49.85	46.85	44.85	2,800



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 pumpkin crops are under stress. <http://www.syngenta-us.com/seed-treatment/farmore-fi400-cucurbits>



FarMore[®] treated items are highlighted in green in the price tables.

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

FarMore Technology provides systemic and post-emergence disease protection against general damping-off and seedling blight, *Fusarium* spp., *Pythium* spp., *Rhizoctonia* spp., *Alternaria* spp. and seed-borne *Sclerotinia* spp. in selected vegetables.

FarMore offers targeted protection from a variety of insects without harming beneficial insects and pollinators to help get crops off to a healthy start and maximize yield potential. Insects include; aphids, cucumber beetles, flea beetles, leafminers, seedcorn maggots, wireworms and whiteflies.



CASPERITA



SNOWBALL



ICICLE



BLANCO



COTTON CANDY



WHITE GOLD ★

PUMPKINS		WHITE							
Item #	Variety	Days	Diameter Height	▼ Weight pounds	Skin	Powdery Mildew	Vine	Spacing Category	Features
38532	Baby Boo ^{PVP}	100	3 x 2"	¼	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 at full maturity.
38032	Casperita ^{F1}	77	3 x 2"	½ - 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	Icicle ^{F1}	105	5 x 4"	2	White	HR	Medium	4	Icicle is the perfect pie size pumpkin with a nice white color and a strong handle. It grows on a restricted vine. Pairs well with Touch of Autumn. The right size for boxing.
38033	Blanco ^{F1}	100	8 x 6"	4 - 6	White		Medium	4	Flattened shape, medium rib and long handle. Has shown moderate resistance to color change due to sun or light frost. Great alternative for growers who require a consistent high quality white pumpkin. The stay white gene extends the harvest window.
38065	Cotton Candy ^{F1}	110	9 x 8"	5 - 12	White		Vine	3	A Rupp white pumpkin with good handles, a blend of strains that range between 5 and 12 lbs. Harvest and store in the dark to maintain best white color. Excellent for painting. Flesh color is white. Despite its name, this is not good for eating.
38119	★ White Gold	90	7 ½ x 8 ¾"	8	White		Medium	3	A new generation of white pumpkin with uniform, slightly 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	T	Vine	2	A round white pumpkin with a strong handle. Has good color retention and a full vine.
38510	Flat White Boer Ford	115	10 x 4"	15 - 17	White		Large	2	A flat pumpkin with a creamy white rind and thick orange flesh. The vines are vigorous, providing good cover for the fruit. It is both superbly 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.
38545	Valenciano	110	12 x 8"	15 - 20	White		Vine	2	A white pumpkin from Johnny's to compare to Casper and Lumina. Larger and better color with excellent flesh for pies.
38086	★ Crystal Star	100	12 x 11"	25 - 35	White		Medium	2	A Rupp variety that will maintain its true white color, not turning blue or yellow at 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.



ABOMINABLE



FLAT WHITE BOER
FORD



FLAT STACKER



VALENCIANO



CRYSTAL STAR ★



POLAR BEAR

PUMPKINS WHITE

M=1,000 seeds

Priced per package		100 seed	250 seed				
Price per 1,000 seeds (M)				1M	3M	25M	100M
38100	Abominable ^{FI400}		41.60	110.85	107.60	105.10	103.80
38033	Blanco ^{FI400}		39.90	106.40	103.15	100.65	99.35
38032	Casperita ^{FI400}	25.50	47.15	125.70	122.45	119.95	118.65
38065	Cotton Candy		18.10	48.25	45.00	42.50	41.20
38065	Cotton Candy ^{FI400}		20.50	54.55	51.30	48.80	47.50
38065U	Cotton Candy ^{Untreated}		18.10	48.25	45.00	42.50	41.20
38086	Crystal Star ^{FI400}	46.85	86.70	231.10	227.85	225.35	224.05
38086U	Crystal Star ^{Untreated}	45.55	84.30	224.80	221.55	219.05	217.75
38510	Flat White Boer Ford ^{FI400}		22.90	61.05	57.80	55.30	54.00
38041	Flat Stacker ^{FI400}	20.20	37.35	99.50	96.25	93.75	92.45
38547	Full Moon	38.30	70.90	189.00	185.75	183.25	181.95

PUMPKINS WHITE

M=1,000 seeds

Priced per package		100 seed	250 seed				
Price per 1,000 seeds (M)				1M	3M	25M	100M
38122	Iceberg ^{FI400}		37.55	100.05	96.80	94.30	93.00
38129	Polar Bear ^{FI400}	33.25	61.50	163.90	160.65	158.15	156.85
38004	Snowball ^{FI400}		48.80	130.05	126.80	124.30	123.00
38119	White Gold ^{FI400}	25.75	47.65	126.95	123.70	121.20	119.90
Priced per package		1 oz.		4 oz.			
Priced per pound in these package sizes				1#	5#	25#	
38532	Baby Boo	16.50	48.75	149.95	146.95	144.95	
38016	Casper	7.70	22.75	70.00	67.00		
38514	Lumina	12.90	38.20	117.50	114.50	112.50	
38545	Valenciano	10.90	32.20	98.95	95.95	93.95	



Plant a Field of Color with These Pumpkins!

CASPERITA Pg 110

MIDNIGHT Pg 108

ORANGITA Pg 106

PHANTOMITA Pg108 **NEW**

SUNSHINE Pg 108 **NEW**



CHAMPION



CRUNCHY KING



PEARL



REGAL RED



KONA



SV2146VB

RADISH				
Item #	▼ Variety	Days	Shape	Features
39003	Champion	21	Globe	Bright red, globe-shaped, very firm. Slow to pith.
39004	Cherry Belle	21	Globe	AAS winner. Round, red, solid, crisp and very popular garden variety.
39005	Crimson Giant	28	Globe	Firm, crisp, white flesh with bright red skin.
39105	Crunchy King ^{F1}	24	Globe	Holds round shape and does well all season. Strongest in Fall and Spring slots. Bright white interior with attractive 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.
39023	Pink Celebration	25	Globe	A pink skinned, white fleshed globe with crisp, firm texture that holds up well.
39106	Regal Red ^{F1}	24	Globe	A fast-maturing summer radish that produces uniform, round bulbs.
39008	Sparkler Early Scarlet	25	Globe	Skin is scarlet with a definite white tip. Flesh is white, crisp and tender. Popular in most areas.
39010	White Globe Hailstone	25	Globe	A white globe with crisp flesh. Excellent for market or garden.
39009	White Icicle	28	Tapered	Long and slender with white skin and white, crisp tender flesh. Very popular.

RADISH		WINTER / 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.
39503	Black Spanish Round	60	Black skin with white, tender flesh. Tolerates cool weather and stores well.
39501	China Rose	52	Rose colored skin. Mild, sweet and crisp.
39502	China White	55	Excellent for storage. Roots 5 - 6" long.
39702	Minowase Summer Cross #3 ^{F1 Daikon Japanese Type}	50	This radish is best when harvested in the fall. Excellent quality. 15" long and weighs 2 lbs.
39706	Red Meat	60	Beautiful red flesh, 3" diameter round root. Exterior is white with dark green neck.

RADISH		M=1,000 seeds			
Priced per package		4 oz.			
Priced per pound in these package sizes		1#	5#	25#	
39003U	Champion ^{Untreated}	5.50	13.00	12.75	12.50
39004U	Cherry Belle ^{Untreated}	5.65	13.45	13.20	12.95
39005U	Crimson Giant ^{Untreated}	5.50	13.00	12.75	12.50
39001	Easter Egg II	10.00	23.80	23.55	23.30
39007U	French Breakfast ^{Untreated}	5.90	14.00	13.75	13.50
39023U	Pink Celebration ^{Untreated}	5.90	14.00	13.75	13.50
39008U	Sparkler Early Scarlet ^{Untreated}	5.50	13.00	12.75	12.50

RADISH		M=1,000 seeds			
Priced per package		4 oz.			
Priced per pound in these package sizes		1#	5#	25#	
39010U	White Globe Hailstone ^{Untreated}	7.45	17.65	17.40	17.15
39009U	White Icicle ^{Untreated}	5.50	13.00	12.75	12.50
Priced per 1,000 seeds in these package sizes		10M	50M	250M	1000M
39105	Crunchy King	1.76	1.66	1.61	1.56
39103	Crunchy Royale	1.64	1.54	1.49	1.44
39102	Pearl	2.95	2.85	2.80	2.75
39106	Regal Red	1.65	1.55	1.50	1.45



SAVE WITH CASH DISCOUNTS

The earlier you order the more you'll receive!

See page 154 for all of the details.

November	7%
December	6%
January	5%
February	4%
March	3%
April	2%

POST HARVEST FINANCING AVAILABLE

Options include 0% interest with no payments due until December 2025.

The best rates are available before 12/31/2024.

See page 155 for all of the details.



JOHN DEERE
FINANCIAL



0%

SALSIFY

Item #	▼ Variety	Days	Features
40001	Mammoth Sandwich Island	150	Called Vegetable Oyster. Roots 8 - 9" long. Good winter keeper.

SPINACH

Hybrid

Item #	▼ 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 exceptional pliability. It features rich, dark leaves that are great for bunching.

SPINACH

OP

Item #	▼ Variety	Days	Features
41501	Bloodsdales Long Standing	45	Semi-erect plants with savoyed, dark green leaves. Slow to bolt. Good for spring or summer sowing.
41502	Giant Noble	45	A smooth leaf, long standing benchmark variety.
41503	New Zealand	60	A heat and drought resistant variety with spreading, succulent leaves.

RADISH WINTER/ORIENTAL

M=1,000 seeds

Priced per package		1 oz.	4 oz.		
Priced per pound in these package sizes				1#	5#
39503U	Black Spanish Round Untreated		7.90	16.20	15.95
39501U	China Rose Untreated		8.30	17.00	16.75
39502U	China White Untreated		7.90	16.20	15.95
39702	Minowase Summer Cross #3	24.35	77.80	222.15	221.15
39706U	Red Meat Untreated	13.00	41.60	118.75	117.75
Priced per 1,000 seeds in these package sizes				1M	5M
39701	April Cross		13.80	12.10	11.00

SALSIFY

Priced per package		1 oz.	4 oz.		
Priced per pound in these package sizes				1#	5#
40001U	Mammoth Sandwich Island Untreated	4.05	13.45	37.50	37.00

SPINACH Hybrid

M=1,000 seeds

Price per 1,000 seeds (M)		5M	25M	250M	1,000M
41008	Edna F300	0.54	0.46	0.41	0.38
41002	Kona F300	0.60	0.52	0.47	0.44
41001	Olympia F300	0.59	0.51	0.46	0.43
41003	SV2146VB	0.60	0.52	0.47	0.44

SPINACH OP

Priced per package		4 oz.			
Priced per pound in these package sizes				1#	5#
41501U	Bloodsdales Long Standing Untreated	8.70	13.90	13.60	13.35
41502U	Giant Noble Untreated	8.95	14.25	13.95	13.70
41503U	New Zealand Untreated	9.30	14.85	14.55	14.30



SQUASH (Summer)

PLANTING

Direct seed into field. Plant ½" - ¾" deep. Row spacing should range from 36" - 60" apart. In row spacing ranges from 18" - 24".

See "Germination Chart" on page 149 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 - 2½" in diameter. Another way to determine harvestability 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.

Payload is an all-around versatile zucchini to be used all season long. Payload features an open plant for easy picking in a color that's preferred by consumers.

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

PAYLOAD ★ pg.115



BASIMA



CUE BALL



DUNJA



EIGHT BALL



GREEN MACHINE ★



LIBERTY



MAGDA



PAYCHECK



SPINELESS BEAUTY ★



SPINELESS PERFECTION ★



SPINELESS SUPREME



STARSHIP

SQUASH		SUMMER GREEN Hybrid						Pricing on page 116	
Item #	▼ Variety	Days	Harvest Length	Color	Type	Fruit Shape	Disease	Features	
42092	Basima	40	4"	Pale Green	Lebanese	Tapered	WMV, ZYMV	Strong plant habit with semi-erect stem and open habit. Very productive. Perfect for stuffing.	
42084	Cue Ball	35 - 40	3 x 3"	Pale Green	Zucchini	Round		This is a productive, globe-shaped zucchini. When well grown, it should be harvested daily.	
42096	Dunja 🌱	45	7 - 8"	Dark Green	Zucchini	Cylindrical	PM, WMV, ZYMV	A high yielding variety with a compact and open plant for ease of picking. Glossy fruit also exudes fine flecking for a quite handsome exterior.	
42065	Eight Ball	40	3 x 3"	Medium Dark Green	Zucchini	Round		An AAS winner. A unique variety for both the commercial grower or the home gardener. Uniform round fruit on an open bush plant.	
42009	★ Green Machine 🌱	45	7 - 8"	Medium Dark Green	Zucchini	Cylindrical	CMV, PM, WMV, ZYMV	Widely adaptable, high yielding variety. Has a strong semi-open plant with an excellent disease package.	
42052	Liberty 🌱 🏠	45	8"	Dark Green	Zucchini	Cylindrical	PRSV, WMV, ZYMV	Strong, open and spineless plant promoting ease of picking and less damage at harvest. Attractive glossy fruit maintain a cylindrical shape and twist off easily at maturity.	
42124	Magda	50	3 - 4"	Light Green	Lebanese	Cylindrical		Very sweet, nutty flavor used for stuffing, stir-fries, and pickling. High yielding over a long season.	
42088	Paycheck 🌱	42	7 - 8"	Medium Green	Zucchini	Cylindrical	CMV, PM, WMV, ZYMV	In Eastern trials, it has shown good adaptability and excellent fruit quality. Works well in cooler conditions.	
42002	★ Payload 🌱	43	7 - 8"	Medium Green	Zucchini	Cylindrical	CMV, PM, WMV, ZYMV	Open plant and reduced spines. Comprehensive disease package. Slightly darker fruit and higher yielding than Paycheck.	
42027	★ Spineless Beauty 🌱	50	7 ½ - 8 ½"	Medium Green	Zucchini	Cylindrical		Popular with growers due to lack of petiole spines, open plant habit, large yields, classy cylindrical fruit, and continuous setting ability.	
42094	★ Spineless Perfection 🌱	44	7 - 8"	Medium Green	Zucchini	Cylindrical	PM, WMV, ZYMV	A spineless variety that integrates more refined flecking onto a rich looking glossy fruit. Contains the "easy pick" characteristic meaning the fruit are easily twisted from the plant leaving the peduncle and fruit still intact.	
42051	Spineless Supreme 🌱	45	7 - 8"	Medium Green	Zucchini	Cylindrical	CMV, PM, WMV, ZYMV	Newest of the spineless series from Syngenta. Offers improved virus and disease protection over its predecessors.	
42135	Starship 🌱	45	2 x 3 - 4"	Medium Dark Green	Scallop	Dish		A quality scallop squash that consistently maintains its shape and glossy dark green color through multiple harvests without rounding. A vigorous bush plant.	



BLONDE BEAUTY★



ENTERPRISE



FORTUNE★



GENTRY

SQUASH SUMMER GREEN Hybrid

M=1,000 seeds

Price per package		100 Seeds	250 Seeds					
Price per 1,000 seeds (M)				1M	3M	25M	50M	55M
42092	Basima	11.85	19.70	56.20	48.85	47.10	46.10	
42072	CashFlow F1400	18.00	30.00	85.70	74.50	72.75	71.75	
42084	Cue Ball	13.80	23.00	65.65	57.05	55.30	54.30	
42096	Dunja F1400	19.10	31.80	90.80	78.95	77.20	76.20	
42065	Eight Ball	16.30	27.15	77.50	67.35	65.60	64.60	
42050	Everglade F1400	20.10	33.50	95.65	83.15	81.40	80.40	
42009	Green Machine F1400	18.95	31.55	90.05	78.30	76.55	75.55	
42052	Liberty F1400	14.50	24.10	68.75	59.75	58.00	57.00	
42124	Magda	10.40	17.30	49.30	42.85	41.10	40.10	
42088	Paycheck F1400	23.80	39.65	113.15	98.35	96.60	95.60	
42002	Payload F1400	20.50	34.15	97.50	84.75	83.00	82.00	
42027	Spineless Beauty F1400	15.35	25.55	72.90	63.35	61.60	60.60	
42094	Spineless Perfection F1400	18.60	30.95	88.30	76.75	75.00	74.00	
42051	Spineless Supreme F1400	20.05	33.35	95.20	82.75	81.00	80.00	
42135	Starship F1400	8.60	14.30	40.85	35.50	33.75	32.75	

SQUASH SUMMER OP

Priced per package		4 oz.		
Priced per pound in these package sizes		1#	5#	
42101U	Black Zucchini Untreated	10.10	26.75	26.50
42112U	Dark Green Zucchini Untreated	9.55	25.25	25.00
42102U	Early Prolific Straightneck Untreated	9.40	24.90	24.65
42103U	Golden Summer Crookneck Untreated	9.40	24.90	24.65
42107U	Golden Zucchini Untreated	10.70	28.25	28.00
42130U	Saffron Untreated	14.35	37.95	37.70
42104U	White Bush Scallop Untreated	13.25	35.00	34.75
42116U	Yellow Scallop Untreated	14.60	38.60	38.35

SQUASH SUMMER YELLOW Hybrid

M=1,000 seeds

Price per package		100 Seeds	250 Seeds				
Price per 1,000 seeds (M)				1M	5M	25M	80M
42018	Blonde Beauty F1400	13.45	22.40	63.90	55.55	53.80	52.80
42059	Enterprise F1400	11.35	18.90	53.95	46.90	45.15	44.15
42042	Fortune F1400	9.40	15.60	44.55	38.70	36.95	35.95
42081	Gentry F1400	9.55	15.90	45.35	39.40	37.65	36.65
42093	Goldprize F1400	16.05	26.70	76.15	66.20	64.45	63.45
42049	Grandprize F1400	18.80	31.30	89.40	77.70	75.95	74.95
42098	Smooth Wonder F1400	14.95	24.90	71.05	61.75	60.00	59.00
42010	Sunburst F1400	15.20	25.30	72.20	62.75	61.00	60.00
Price per package		100 Seeds	250 Seeds				
Price per 1,000 seeds (M)				1M	3M	25M	55M
42133	Golden Glory F1400	18.30	30.50	87.10	75.70	73.95	72.95
42080	One Ball	15.60	25.95	74.05	64.35	62.60	61.60
Price per package		100 Seeds	250 Seeds				
Price per 1,000 seeds (M)				1M	3M	55M	80M
Transgenic							
42073	XPT 1832 III Straight F1400			67.90	64.05		



Transgenic squash require a STSA -- Squash Technology Stewardship Agreement -- license number from Seminis. You may also obtain your STSA by visiting www.ruppseeds.com/agcelerate. Please put your number on your order form. If you need a license number, please call us for an agreement. Allow 3-4 weeks for processing.

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.

Fortune yellow straight neck squash has become an industry standard over the years. Fortune is an early variety that contains the precocious gene which helps mask mild virus infestations on the fruit. Proven over and over again, Fortune is a yellow hybrid that can be grown with confidence.

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





GOLDEN GLORY



GOLDPRIZE



GRANDPRIZE ★



ONE BALL



SMOOTH WONDER

NEW




SUNBURST

SQUASH		SUMMER YELLOW Hybrid					Pricing on page 116	
Item #	▼ Variety	Days	Harvest Length	Color	Type	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 Slickpick series. Standard commercial shape with an open plant makes a desirable package all around!
42059	Enterprise	41	7 - 8"	Yellow	Straightneck	Tapered		Very productive, vigorous plant with broad adaptability. Slim bulb, excellent fruit quality, smooth, and small blossom scars.
42042 ★	Fortune	39	5 - 6"	Bright Yellow	Straightneck	Cylindrical		A Syngenta variety that is early, high yielding, and carries the precocious gene that masks mild virus infections. Also has fruit ideal for the baby vegetable markets.
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.
42093	Goldprize	42	6 - 7"	Glossy Yellow	Straightneck	Bottle	WMV, ZYMV	Green-stemmed variety with high quality fruit and an attractive yellow luster. High yields of #1 fruit.
42049 ★	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.

SQUASH		SUMMER OP					Pricing on page 116
Item #	▼ Variety	Days	Harvest Length	Color	Type	Fruit Shape	Features
42101	Black Zucchini	62	6 - 7"	Black Green	Zucchini	Cylindrical	Popular home garden variety.
42112	Dark Green Zucchini	62	6 - 7"	Medium Dark Green	Zucchini	Cylindrical	Popular, medium dark green variety.
42102	Early Prolific Straightneck	50	4 - 6"	Yellow	Straightneck	Tapered	AAS winner. Popular, early home garden variety. Somewhat warted, not recommended for commercial growers.
42103	Golden Summer Crookneck	50	6 - 7"	Bright Yellow	Crookneck	Full Crook	Popular home garden crookneck, heavily warted. Not for market growers.
42107	Golden Zucchini	55	6 - 7"	Golden	Golden Zucchini	Cylindrical	Has crisp flesh on golden skinned fruit. A good choice for the home gardener.
42130	Saffron ^{Imp.}	42	4 - 6"	Yellow	Straightneck	Tapered	A Hollar improved yellow straightneck variety.
42104	White Bush Scallop	52	3 - 5"	Creamy White	Scallop	Flat	Firm, creamy fleshed, prolific, home garden variety.
42116	Yellow Scallop	55	3 - 4"	Bright Yellow	Scallop	Flat	Attractive yellow colored fruit in the scallop family. Some have a dark green blossom scar.



UGLY DUMPLING  pg.123

SQUASH (Winter)

PLANTING

Plant seeds ½" - ¾" 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 125 for additional information.

See "Germination Chart" on page 149 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 over-plant 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 SPACING CHART

	Row Width	Distance Between Plants	Plants Per Acre
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 DELIGHT ★



AUTUMN PERFECTION



CELEBRATION ★



CREAM OF THE CROP



HARLEQUIN



HEART OF GOLD

SQUASH			WINTER ACORN				
Item #	▼ Variety	Days	Fruit Size	Weight pounds	Color	Habit	Features
42311	★ Autumn Delight ^{F1}	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 ^{F1}	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 ^{F1}	80	4 x 5"	1 ½	Light Yellow / Orange Sutures	Compact Bush	A powdery mildew tolerant, gold striped acorn hybrid with exceptional 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 ^{F1}	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 ^{F1}	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 ^{F1}	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.
42406	Table Gold	80	6 x 5"	1 ½	Golden	Bush	A golden acorn suited for home gardeners.
More varieties on the next page -->							

SQUASH WINTER ACORN			M=1,000 seeds				
Priced per package		1 oz.	4 oz.				
Priced per pound in these package sizes		1#	5#	20#	Seeds /lb.		
42406	Table Gold	7.00	21.75	59.85	58.85	57.35	5,300
42410	Table Queen	7.00	21.50	58.85	57.85	56.35	5,200
42309	Table Treat	10.50	33.00	90.40	89.40	87.90	4,600
Priced per package		250 Seeds					
Price per 1,000 seeds (M)		1M	3M	25M	55M	Seeds /lb.	
42311	Autumn Delight	20.80	55.45	52.45	50.45	49.45	4,300
42311	Autumn Delight ^{F1400}	22.00	58.60	55.60	53.60	52.60	4,300
42311U	Autumn Delight ^{Untreated}	20.80	55.45	52.45	50.45	49.45	
42308	Autumn Perfection ^{F1400}	21.85	58.25	55.25	53.25	52.25	
42955	Celebration	13.85	36.90	33.90	31.90	30.90	4,800
42955	Celebration ^{F1400}	15.05	40.05	37.05	35.05	34.05	4,800

SQUASH WINTER ACORN			M=1,000 seeds				
Priced per package		250 Seeds					
Price per 1,000 seeds (M)		1M	3M	25M	55M	Seeds /lb.	
42304	Cream of the Crop	14.60	38.85	35.85	33.85	32.85	4,000
42304	Cream of the Crop ^{F1400}	15.75	42.00	39.00	37.00	36.00	4,000
42952	Harlequin	13.20	35.15	32.15	30.15	29.15	4,400
42930	Heart of Gold	14.95	39.75	36.75	34.75	33.75	4,900
42930	Heart of Gold ^{F1400}	16.10	42.90	39.90	37.90	36.90	4,900
42302	Mashed Potato	16.75	44.55	41.55	39.55	38.55	5,900
42301	Table Ace	16.45	43.85	40.85	38.85	37.85	4,400
42301	Table Ace ^{F1400}	17.65	47.00	44.00	42.00	41.00	4,400
42301U	Table Ace ^{Untreated}	16.45	43.85	40.85	38.85	37.85	4,400
42310	Table Star	12.60	33.55	30.55	28.55	27.55	3,900
42310	Table Star ^{F1400}	13.80	36.70	33.70	31.70	30.70	3,900
42307	Taybelle PM ^{F1400}	17.20	45.85	42.85	40.85	39.85	4,300



MASHED POTATO



TABLE ACE



TABLE GOLD



TABLE STAR



TABLE TREAT



TAYBELLE PM

SQUASH

WINTER ACORN

Pricing on page 119

Item #	Variety	Days	Fruit Size	Weight pounds	Color	Habit	Features
42410	Table Queen	80	5 ½ x 4"	1 ½	Dark Green	Vine	An older, reliable OP variety with smaller fruit than the current marketed hybrids.
42310	Table Star ^{F1} 	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 ^{F1} 	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 comparable 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.

GROWER PREFERRED ALL-STARS ★ WINTER SQUASH

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

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.



AUTUMN CUP ★



SPACE STATION ★



SUNSHINE












SUN SPOT



SWEET MAMA



THUNDER ★

SQUASH		WINTER BUTTERCUP / KABOCHA					
Item #	▼ Variety	Days	Fruit Size	Weight pounds	Color	Habit	Features
42935 ★	Autumn Cup ^{F1}  	95	6"	4 ½	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 ^{F1}  	90	7 x 4"	3 ½	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 ^{F1}  	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 ^{F1} 	85	8 - 9 x 5"	4	Dark Green	Semi Bush	AAS winner. A kabocha with sweet flavor that stores well.
42968 ★	Thunder ^{F1}  	85	7 x 4"	3 ½	Black Green	Vine	A buttercup/kabocha hybrid that is an excellent yielder with dry sweet flesh.

SQUASH WINTER BUTTERCUP / KABOCHA					M=1,000 seeds	
Priced per package		1 oz.	4 oz.			
Priced per pound in these package sizes				1#	5#	20#
42904	Buttercup Burgess	5.00	16.00	43.55	42.55	41.05
42905	Sweet Mama F1400	30.25	98.00	270.25	269.25	267.75

SQUASH WINTER BUTTERCUP / KABOCHA		M=1,000 seeds				
Priced per package		250 Seeds				
Price per 1,000 seeds (M)		1M	3M	25M	55M	
42935	Autumn Cup	29.05	77.35	74.35	72.35	71.35
42935	Autumn Cup ^{F1400}	30.20	80.50	77.50	75.50	74.50
42962	Space Station	37.30	99.35	96.35	94.35	93.35
42962	Space Station ^{F1400}	38.45	102.50	99.50	97.50	96.50
42962U	Space Station ^{Untreated}	37.30	99.35	96.35	94.35	93.35
42966	Sun Spot	26.75	71.25	68.25	66.25	65.25
42966	Sun Spot ^{F1400}	27.90	74.40	71.40	69.40	68.40
42902	Sunshine	25.05	66.75	63.75	61.75	60.75
42968	Thunder	30.25	80.55	77.55	75.55	74.55
42968	Thunder ^{F1400}	31.40	83.70	80.70	78.70	77.70



BETTERNUT 23



BETTERNUT 401



BETTERNUT 900 ★



BETTERNUT 1744



BUGLE



BUTTERBABY

SQUASH			WINTER BUTTERNUT				
Item #	▼ Variety	Days	Fruit Size	Weight pounds	Color	Habit	Features
42617	Atlas ^{F1}	100 - 110	10 - 12"	5 - 7	Light Tan	Semi Bush	A uniform butternut hybrid. High yields. Good for processing.
42613	Avalon ^{F1}	88	11"	4 - 5	Buff	Vine	This Hollar Seeds butternut is a good packing and high yielding variety.
42606	Betternut 23 ^{F1}	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 ^{F1}	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	★ Betternut 900 ^{F1}	80	8 - 9"	3	Light Tan	Semi Bush	Overall best variety in the Betternut series for boxing. Powdery mildew tolerant.
42976	Betternut 1744 ^{F1}	80	8 - 9"	3 ¼	Light Tan	Semi Bush	Slightly larger than Betternut 900 for farm markets and roadside stands. Provides powdery mildew tolerance.
42704	Bugle	80	10"	3	Light Tan	Semi Bush	Uniform fruit that are slightly smaller than Waltham. Bred by Molly Jahn and George Moriarty at Cornell.
42607	Butterbaby	100 - 105	5 - 6"	½ - 1	Buff	Semi Bush	High eating quality variety that is perfect size for CSA box growers and personal-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.
42626	Quantum ^{F1}	100 - 110	7"	2 ½ - 4 ½	Light Tan	Vine	Large necked, blocky fruit. Thick flesh.
42615	★ Ultra ^{F1}	90	15"	10	Light Tan	Vine	A high yielding large butternut for both processors and market gardeners.
42701	Waltham	97	10 - 12"	3 - 6	Light Tan	Vine	Vigorous, fruit size more variable than hybrids.

SQUASH WINTER BUTTERNUT				M=1,000 seeds			
Priced per package		1 oz.	4 oz.				
Priced per pound in these package sizes				1#	5#	20#	Seeds /lb.
42704	Bugle	8.50	26.50	72.95	71.95	70.45	5,600
42701	Waltham	4.50	14.00	38.40	37.40	35.90	4,700
Priced per package		250 Seeds					
Price per 1,000 seeds (M)			1M	3M	25M	100M	Seeds /lb.
42617	Atlas ^{F1400}	26.55	70.70	67.70	65.70	64.70	5,100
42613	Avalon ^{F1400}	24.70	65.85	62.85	60.85	59.85	5,000
42606	Betternut 23	16.35	43.60	40.60	38.60	37.60	5,000
42606	Betternut 23 ^{F1400}	17.55	46.75	43.75	41.75	40.75	5,000
42614	Betternut 401	15.55	41.45	38.45	36.45	35.45	6,000
42614	Betternut 401 ^{F1400}	16.75	44.60	41.60	39.60	38.60	6,000

SQUASH WINTER BUTTERNUT			M=1,000 seeds				
Priced per package		250 Seeds					
Price per 1,000 seeds (M)			1M	3M	25M	100M	Seeds /lb.
42622	Betternut 900	18.15	48.35	45.35	43.35	42.35	4,600
42622	Betternut 900 ^{F1400}	19.35	51.50	48.50	46.50	45.50	4,600
42622U	Betternut 900 ^{Untreated}	18.15	48.35	45.35	43.35	42.35	4,600
42976	Betternut 1744	15.65	41.65	38.65	36.65	35.65	5,000
42976	Betternut 1744 ^{F1400}	16.80	44.80	41.80	39.80	38.80	5,000
42607	Butterbaby ^{F1400}	16.30	43.45	40.45	38.45	37.45	5,800
42702	Honeynut	12.95	34.50	31.50	29.50	28.50	
42626	Quantum ^{F1400}	26.55	70.70	67.70	65.70	64.70	4,900
42615	Ultra ^{F1400}	24.30	64.70	61.70	59.70	58.70	4,500



HONEYNUT



QUANTUM



ULTRA ★



LA ESTRELLA









BUSH DELICATA



JESTER

SQUASH		WINTER CALABASA				
Item #	▼ Variety	Days	Weight pounds	Color	Habit	Features
42802	La Estrella ^{F1}	125 Northern U.S. / 70 Florida in Winter	10# Northern U.S. Summer / 6# Florida Winter	Green and Tan	Vine	A Rupp exclusive from the University of Florida. Bred by Dr. Don Maynard for uniform fruit size and superior flesh color. Popular choice for use in Punkin Chunkin contests and with growers selling squash blossoms.

SQUASH		WINTER DELICATA / SWEET DUMPLING					
Item #	▼ 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	Ivory / 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 ^{F1} 	100	2 ½ x 3 ¾	¾ - 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 CALABASA		M=1,000 seeds			
Priced per package		250 Seeds			
Price per 1,000 seeds (M)		1M	3M	25M	55M
42802	La Estrella	15.70	41.80	38.80	35.80

SQUASH WINTER DELICATA / SWEET DUMPLING		1 oz.			
Priced per package		4 oz.			
Priced per pound in these package sizes		1#	5#	25#	
42945	Festival	12.00	37.75	104.05	101.55
42911	Sweet Dumpling ^{F1400}	15.25	48.25	132.50	130.00
Priced per package		250 Seeds			
Price per 1,000 seeds (M)		1M	3M	25M	100M
42957	Bush Delicata	14.25	37.90	34.90	31.90
42957	Bush Delicata ^{F1400}	15.40	41.05	38.05	35.05
42933	Jester	16.45	43.80	40.80	37.80
42501	Sweet Lightning	23.45	62.50	59.50	56.50
42501	Sweet Lightning ^{F1400}	24.65	65.65	62.65	59.65
42934	Ugly Dumpling ^{F1400}	25.05	66.80	63.80	60.80



FESTIVAL



SWEET LIGHTNING ★



UGLY DUMPLING ↗

BLUE HUBBARD
NEW ENGLAND ★

NK580



RSP1232

SQUASH

WINTER HUBBARD

Item #	▼ Variety	Days	Fruit Size	Weight pounds	Color	Habit	Features
42913	Baby Blue	90	5 x 6"	3	Blue Gray	Vine	Flattened to round in shape, grayish blue skin, yellow flesh. Good flavor when cooked.
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.
42921	NK580 ^{F1} 	105	12 x 14"	14 - 16	Golden	Vine	An improved, very high yielding, golden hubbard hybrid. Great for pies and pastries.
42972	RSp1232 	105	7 ½ x 10"	11 - 12	Orange	Vine	Improved food quality with 2.25 higher brix and 5 points higher dry matter than NK580.
42982	RSp1962 	110	7 ½ x 10"	12	Red Orange	Vine	Optimal dry matter and sugar content for the processing market. Gorgeous skin and flesh color. Prime variety to replace Golden Delicious hubbard.
42919	Uchiki Kuri	90	7 x 7"	2 ½	Orange Red	Vine	Improved smooth Hubbard selection with almost no ribbing on the fruit. Flesh is very sweet and nutty in flavor.

SQUASH WINTER HUBBARD

M=1,000 seeds

	Priced per package		Priced per pound in these package sizes		
	1 oz.	4 oz.	1#	5#	25#
42913 Baby Blue	7.00	22.00	60.25	59.25	57.75
42906 Blue Hubbard	4.50	13.75	37.70	36.70	35.20
42944 Blue Magic	16.00	50.25	138.60	137.60	136.10
42908 Chicago Warted	4.25	13.25	36.35	35.35	33.85
42926 Golden Hubbard	4.50	13.75	37.70	36.70	35.20
42909 Green True	4.50	13.75	37.70	36.70	35.20
42919 Uchiki Kuri	15.50	49.00	135.10	134.10	132.60

SQUASH WINTER HUBBARD

M=1,000 seeds

	Priced per package		Priced per 1,000 seeds (M)			
	250 Seeds		1M	3M	25M	55M
Blue Hubbard New England	17.45	46.50	43.50	41.50	40.50	
Blue Hubbard New England ^{F1400}	18.65	49.65	46.65	44.65	43.65	
42907 Golden Delicious	9.05	24.10	21.10	19.10	18.10	
42907 Golden Delicious ^{F1400}	10.25	27.25	24.25	22.25	21.25	
42977 Heavenly Hubbard	60.15	160.35	157.35	155.35	154.35	
42921 NK580	16.80	44.75	41.75	39.75	38.75	
42921 NK580 ^{F1400}	18.00	47.90	44.90	42.90	41.90	
42972 RSp1232 ^{F1 F1400}	20.50	54.65	51.65	49.65	48.65	
42982 RSp1962 ^{F1 F1400}	19.75	52.60	49.60	47.60	46.60	



RSP1962



PINNACLE



PRIMAVERA ★



SPAGHETTI



TIVOLI



VEGETABLE
SPAGHETTI

SQUASH

WINTER SPAGHETTI

Pricing on page 126

Item #	Variety	Days	Fruit Size	Weight pounds	Color	Habit	Features
42950	Pinnacle F1	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 F1	90 - 95	5 1/2 x 10"	2 1/2 - 3	Canary Yellow	Restricted Vine	A high yielding Sakata hybrid with good uniformity and attractive color.
42947	Small Wonder	90	6"	1 1/2 - 2	Light Orange	Vine	A spaghetti squash from Hollar with the right size for an individual serving. A prolific yielder with a vine type habit. Normal interior noodles like spaghetti squash.
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 F1	95	12"	4	Tan with Green Stripes	Vine	Spaghetti squash in a unique package. Interior "noodles" are just like vegetable spaghetti but are sweeter and better tasting. Striped, cream colored rind turns orange when well ripened. A very uniform hybrid.
42920	Tivoli F1	95	6 - 7"	3 - 4	Creamy	Bush	AAS Winner. First bush spaghetti squash.
42981	Vegetable Spaghetti	100	5 1/2 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.

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 Maturity	Planting Date: May 1 Harvest Range	Planting Date: May 15 Harvest Range	Planting Date: June 1 Harvest Range	Planting Date: June 15 Harvest Range	Planting Date: July 1 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.



AUTUMN FROST



GALEUSE
D'EYSINESMARINA DE
CHIOGGIARUPP'S TURK'S
TURBAN ★

TINY TURK

SQUASH

WINTER OTHER

Pricing on page 127

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.
38505	Cushaw Green Striped	110	17 x 10"	25 - 40	White / Green Stripe	Vine	Fine grained flesh. Good for pies or canning.
42971	Galeuse d'Eysines <small>Peanut</small> 	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 ½ - 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 	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.
42105	Sweet Meat	100	9 x 5"	10	Blue Green	Vine	An excellent keeper with great tasting flesh. Makes superior pies. An old time favorite of the Northwest.
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 SPAGHETTI

M=1,000 seeds

	Priced per package		M=1,000 seeds		
	1 oz.	4 oz.	1#	5#	25#
42903 Spaghetti	6.75	21.00	57.50	56.50	55.00
42920 Tivoli <small>F1400</small>	18.75	60.00	165.50	164.50	163.00
42981 Vegetable Spaghetti <small>F1400</small>	10.75	34.00	93.50	92.50	91.00
	Priced per package		250 Seeds		
	Price per 1,000 seeds (M)	1M	3M	25M	Seeds /lb.
42950 Pinnacle <small>F1400</small>	37.30	99.45	78.30	77.80	2,600
42946 Primavera <small>F1400</small>	32.65	87.00	68.50	68.00	3,500
42947 Small Wonder	29.80	79.45	62.55	62.05	2,000
42929 Stripetti	19.95	53.15	41.85	41.35	5,900



FULL SUN
IMPROVED



GOLDEN RAY



GOLDY DOUBLE



MARLEY **NEW**



ZIGGY **NEW**

**ORDERS
OVER \$350
ARE SHIPPED
FREE!**

SUNFLOWER/CUT FLOWERS			Pricing on page 127 & 129
Item #	Variety	Days	Features
47007	Full Sun Improved	60-100	A single stem with dark yellow petals and dark disc, 68 - 84 inches tall. Seed spacing will affect plant height and head size. 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.
47081	Golden Ray ^{F1}	50-55	A unique "Gladiola" flower arrangement along the stem. Golden Ray is 5' tall with a flower diameter of 4.5-5.5". Excellent for a cut flower as well as a garden ornament. Best performance when top flower removed.
47010	Goldy Double	45-50	Goldy Double is 60-72" tall, with 18-24" stems with large fully double 5-7" blooms with green to yellow centers. Produced on sturdy branching plants with minimal pollen.
47016	Lemon Queen	70	6 - 7' tall with 5" blooms, pale lemon-yellow with dark centers. Free flowering and multiple branched with strong stems are ideal for cut flowers or borders.
47082 NEW	Marley ^{F1}	45-70	With unique color combination of cream and purple. Marley is bound to set a new trend. 50-70" tall.
47030	NuSun 5045CL	95	A mid-maturity black oil that includes Clearfield protection and shows excellent late-season standability. This variety is one of the industry's leading downy mildew tolerance sunflowers.
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.
47015	Velvet Queen	70	5' tall with 5" velvety blooms that are burgundy, chestnut and bronze with a dark center. Well branched, multiple flowered, free flowering plants with strong stems which are ideal for cut flowers or borders.
47083 NEW	Ziggy ^{F1}	45-70	Its petals are a combination of yellow and brown and under warmer conditions, and strong light, colors may deepen. 50-70" tall.
More varieties on the next page -->			

SQUASH WINTER OTHER		M=1,000 seeds				
Priced per package		1 oz.	4 oz.			
Priced per pound in these package sizes						
		1#	5#	25#		
42901	Banana Pink Jumbo	7.00	21.50	58.65	57.65	56.15
38505	Cushaw Green Striped	6.75	21.25	58.00	57.00	55.50
42948	Georgia Candy Roaster	7.75	24.00	65.75	64.75	63.25
42105U	Sweet Meat ^{Untreated}	5.00	15.50	42.50	41.50	40.00
42938	Tricolor Cushaw	7.25	23.00	63.00	62.00	60.50
26007	Turk's Turban	6.25	19.75	53.90	52.90	51.40
Priced per package		250 Seeds				
Price per 1,000 seeds (M)		1M	3M	25M	55M	
42989	Autumn Frost	29.65	78.95	75.95	73.95	72.95
42971	Galeuse d'Eysines ^{Peanut}	27.10	72.15	69.15	67.15	66.15
42971U	Galeuse d'Eysines ^{Peanut Untreated}	27.10	72.15	69.15	67.15	66.15
42971	Galeuse d'Eysines ^{Peanut FI400}	28.25	75.30	72.30	70.30	69.30
42970	Marina de Chioggia	31.80	84.70	81.70	79.70	78.70
42970U	Marina de Chioggia ^{Untreated}	31.80	84.70	81.70	79.70	78.70
42970	Marina de Chioggia ^{FI400}	32.95	87.85	84.85	82.85	81.85
26017	Rupp's Turk's Turban ^{FI400}	22.00	58.60	55.60	53.60	52.60
26024	Tiny Turk	16.50	43.90	40.90	38.90	37.90
26024	Tiny Turk ^{FI400}	17.65	47.05	44.05	42.05	41.05

SUNFLOWER		M=1,000 seeds					
Priced per package		1 oz.	4 oz.				
Priced per pound in these package sizes				1#	5#	50#	
47005U	Giant Striped <small>Untreated</small>		7.80	14.10	13.60	13.35	
47016U	Lemon Queen <small>Untreated</small>	5.15	16.80	47.25	46.25		
47014U	Sunspot Dwarf <small>Untreated</small>	5.05	16.40	46.15	45.15		
47015U	Velvet Queen <small>Untreated</small>	5.00	16.35	46.05	45.05		
Priced per 1,000 seeds in these package sizes				5M	25M	50M	100M
47030	NuSun 5045CL <small>Clearfield</small>		7.30	6.30	5.80	5.55	

Pricing for Sunflowers and Zinnias continues on page 129 -->.



PROCUT BICOLOR



PROCUT HORIZON



PROCUT ORANGE EXCEL



PROCUT PLUM



PROCUT RED



PROCUT WHITE LITE



PROCUT WHITE NITE



SUNFILL GREEN



SUNFILL PURPLE



SUNRICH GOLD





SUNRICH LEMON



SUNRICH LIME

SUNFLOWER/CUT FLOWERS

Pricing on page 129

Item #	▼ Variety	Days	Features
ProCut Series Sunflowers			
			ProCut Series Sunflowers are early maturing, pollenless hybrids. Plants are strong single stems that are 60-72" high with 4-6" blooms. All of the ProCut varieties are day length neutral.
47037	ProCut Bicolor	50-60	When you think about autumn colors you have to include ProCut Bicolor. A splash of bronzy red on orange tipped petals. It is the best single stem cutting bicolor sunflower available to growers.
47036	ProCut Horizon	45-55	ProCut variety, with rich overlapping orange petals surrounding a traditional dark 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 Nite, Horizon and Orange Excel
SunFill Series			
47041	SunFill Green	55-60	SunFill Series Sunflowers are a unique, novel green and purple sunflower. Fast growing sunflower that produces a 3-4" geometric flower head for use as bouquet greenery. They have highly ornamental sepals that wrap the flower face, creating a look typically only found on the back of the flower. Pollenless, single stem. Ht: 60-72". Should be cut early.
47042	SunFill Purple	55-60	
Sunrich Series			
47001	Sunrich Gold	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 ½ feet, with a 5 - 6" flower. Works best if direct sown with a 5" spacing. Need to keep a dense planting. Over fertilizing will cause the flower to grow too big for floral purposes.
47002	Sunrich Lemon	55-70	
47006	Sunrich Lime	55-70	
47003	Sunrich Orange	55-70	A blend of the four Sunrich Sunflower Series.
47070	Sunrich Blend	50-70	
47004	Sunrich Limoncello Summer	50-65	An early variety in the Sunrich series. Flowers 5 to 10 days earlier than the Gold, Lemon and Orange. A unique bi-color flower, vibrant yellow changing to a light, creamy yellow tip.
Zinnia			
50003	 Benary Giant Lime	63-77	Fully double, large flowers on long sturdy stems that are perfect for outdoor cut flower production. Grows to 47" tall with 5" flowers. Long vase life.
50004	 Benary Giant White	63-77	
50001	Benary Giant Zinnia Mix	63-70	The most eye catching Zinnia mix available. Vigorous plants producing attractive brightly colored blooms in 12 colors: Lilac, Salmon Rose, Carmine Rose, Golden Yellow, Orange, Deep Red, White, Purple, 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 uniform 28-36" height. A prized cut flower.



SUNRICH ORANGE

SUNRICH
LIMONCELLO
SUMMERBENARY GIANT LIME
NEWBENARY GIANT WHITE
NEWBENARY GIANT
MIX

UPROAR ROSE

SWISS CHARD

Item #	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 <small>Australian Heirloom</small>	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.
43001	Fordhook Giant	60	A vigorous variety with dark green, savoyed, fleshy leaves. Stalks are 2 1/2" wide.
43801	Lucullus	60	A fool-proof variety that grows well, even in the heat. Harvest outer leaves for continuing harvest.
43002	Rhubarb	60	Unique crimson stalks look like rhubarb. Dark green, heavily crumpled leaves have delicious flavor.
43003	Silverado	60	Broad white stems with heavily savoyed dark green leaves. Slow bolting, compact market variety. Single leaf or whole plant harvest. More compact plant than Fordhook Giant.

TOMATILLO

Item #	Variety	Days	Features
44530	Super Verde	80	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 above average shelf life.

SUNFLOWER

M=1,000 seeds

Priced per package		500 Seeds		
Price per 1,000 seeds (M)			1M	5M
<i>Cut Flowers</i>				
47081U	Golden Ray <small>Untreated</small>	31.50	50.00	45.25
47010U	Goldy Double <small>Untreated</small>	16.75	26.50	24.00
47007U	Full Sun Improved <small>Untreated</small>	27.25	43.00	39.00
47082U	Marley <small>Untreated</small>	27.25	43.00	39.00
47037U	ProCut BiColor <small>Untreated</small>	22.00	34.75	31.50
47036U	ProCut Horizon <small>Untreated</small>	22.00	34.75	31.50
47035U	ProCut Orange Excel <small>Untreated</small>	22.00	34.75	31.50
47033U	ProCut Plum <small>Untreated</small>	22.00	34.75	31.50
47034U	ProCut Red <small>Untreated</small>	22.00	34.75	31.50
47031U	ProCut White Lite <small>Untreated</small>	27.25	43.00	39.00
47032U	ProCut White Nite <small>Untreated</small>	27.25	43.00	39.00
47080U	ProCut Blend <small>Untreated</small>	24.00	37.75	34.20
47041U	SunFill Green <small>Untreated</small>	27.25	43.00	39.00
47042U	SunFill Purple <small>Untreated</small>	27.25	43.00	39.00
47001U	Sunrich Gold <small>Untreated</small>	29.50	46.75	42.30
47002U	Sunrich Lemon <small>Untreated</small>	29.50	46.75	42.30
47006U	Sunrich Lime <small>Untreated</small>	29.50	46.75	42.30
	Sunrich Limoncello Summer			
47040U	<small>Untreated</small>	29.50	46.75	42.30
47003U	Sunrich Orange <small>Untreated</small>	29.50	46.75	42.30
47070U	Sunrich Blend <small>Untreated</small>	30.00	47.25	42.80
47083U	Ziggy <small>Untreated</small>	27.25	43.00	39.00

CUT FLOWERS

M=1,000 seeds

Priced per package		250 Seeds		
Price per 1,000 seeds (M)			1M	5M
<i>Zinnia</i>				
50001U	Benary Giant Zinnia Mix <small>Untreated</small>	24.00	37.75	34.20
50003U	Benary Giant Lime <small>Untreated</small>	24.00	37.75	34.20
50004U	Benary Giant White <small>Untreated</small>	24.00	37.75	34.20
50002U	Uproar Rose Zinnia <small>Untreated</small>	66.75	105.75	96.00

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	13.30	34.65	34.40	33.90
43001U	Fordhook Giant Untreated	6.00	15.65	15.40	14.90
43801U	Lucullus Untreated	5.50	14.25	14.00	13.50
43002U	Rhubarb Untreated	8.90	23.25	23.00	22.50
43003	Silverado	3.55	9.25	9.00	8.50
Priced per 1,000 seeds in these package sizes		10M	25M	250M	1000M
43006	Celebration	3.85	3.60	3.45	3.35

TOMATILLO

M=1,000 seeds

Priced per package		100 Seeds	500 Seeds				
Price per 1,000 seeds (M)				1M	5M	25M	100M
44530	Super Verde	4.85	16.10	25.75	22.35	20.30	19.30



STM2255 ★ pg.134

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 149 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



BETTER BOY PLUS



BIG BEEF PLUS



CELEBRITY



CELEBRITY PLUS ★



EARLY GIRL PLUS

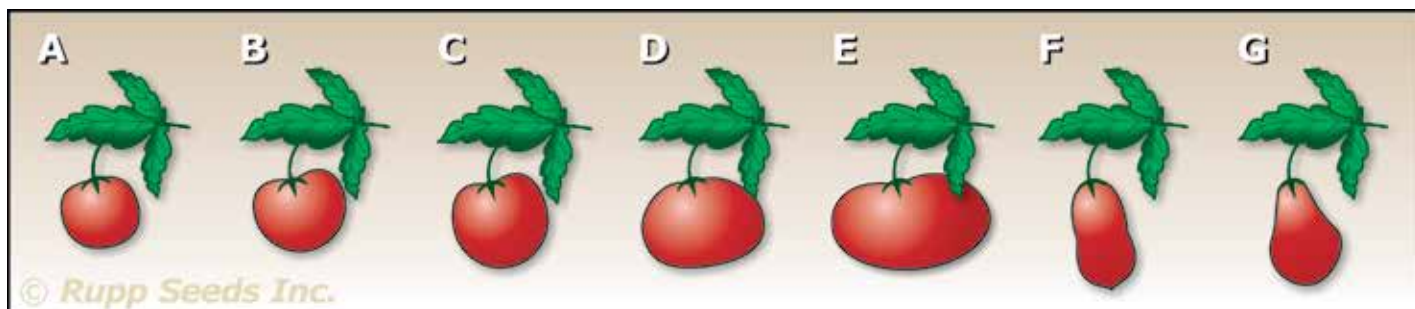


LEMON BOY PLUS

TOMATO		HOME GARDEN / BEDDING Hybrid								
Item #	▼ Variety	Days	Use	Weight ounces	Shoulders	Shape	Habit	Disease	Features	
44015	Beefmaster	80	HG	12	GS	D	INDT	ASC, FR ¹ , GLS, N, VW	Large, vigorous Beefsteak type.	
44002	Better Boy	75	HG	8	GS	C	INDT	ASC, FR ¹ , GLS, N, VW	Widely adapted.	
44080	Better Boy Plus 🏡	77	FM/ HG	8	GS	C	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 <small>Burpee's</small>	78	HG	12	GS	C	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	★ 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	B	INDT	VW	Popular, early home garden variety.	
44098	Early Girl Plus 🏡	60	HG	4 - 6	GS	B	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.	
44102	Husky Red	67	BP, HG	5 - 7	UG	B	DWARF INDT	FR ¹ , VW	Outstanding flavor and yield. Excellent in a container.	
44009	Lemon Boy	72	HG	6	GS	C	INDT	ASC, FR ¹ , GLS, N, VW	Lemon colored, sweet flavored.	
More varieties on the next page -->										

TOMATO HOME GARDEN/BEDDING Hybrid							
Priced per package		100 Seeds	500 Seeds	M=1,000 seeds			
Price per 1,000 seeds (M)				1M	5M	25M	100M
44015	Beefmaster	6.80	26.00	41.55	36.10	32.80	31.20
44002	Better Boy	9.70	37.20	59.50	51.70	47.00	44.75
44080	Better Boy Plus	9.70	37.20	59.50	51.70	47.00	44.75
44076	Big Beef	12.40	47.60	76.15	66.20	60.15	57.25
44081	Big Beef Plus	12.40	47.60	76.15	66.20	60.15	57.25
44003	Big Boy Burpee's	6.65	25.40	40.60	35.30	32.05	30.50
44006	Celebrity	11.65	44.80	71.65	62.30	56.60	53.90
44082	Celebrity Plus	12.05	46.20	73.85	64.20	58.35	55.55
44035	Early Girl	9.70	37.20	59.50	51.70	47.00	44.75

TOMATO HOME GARDEN/BEDDING Hybrid							
Priced per package		100 Seeds	500 Seeds	M=1,000 seeds			
Price per 1,000 seeds (M)				1M	5M	25M	100M
44098	Early Girl Plus	9.70	37.20	59.50	51.70	47.00	44.75
44102	Husky Red	8.80	33.70	53.90	46.85	42.55	40.50
44009	Lemon Boy	13.00	50.00	80.00	69.55	63.20	60.15
44083	Lemon Boy Plus	13.00	50.00	80.00	69.55	63.20	60.15
44025	Patio	9.20	35.35	56.55	49.15	44.65	42.50
44095	Pink Delicious	13.65	52.45	83.85	72.90	66.25	63.05
44073	Pink Girl	8.25	31.60	50.50	43.90	39.90	38.00
44085	RuBee Dawn	14.20	54.60	91.00	82.70	78.75	75.00
44124	RuBee Goddess	14.20	54.60	91.00	82.70	78.75	75.00



TOMATO		HOME GARDEN / BEDDING Hybrid						Pricing on page 131	
Item #	▼ Variety	Days	Use	Weight ounces	Shoulders	Shape	Habit	Disease	Features
44083	Lemon Boy Plus	70	FM/ HG	7	GS	C	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.
44025	Patio	70	HG	4	GS	D	DWARF	ASC, FR ¹	Excellent container hybrid.
44095	Pink Delicious	84	HG	8		E	INDT	ToMV ⁰⁻² , GLS, VW ¹	This giant heirloom-style hybrid tomato is as pink as it is delicious! With an average of about half a pound per fruit, this crack-resistant tomato will be sure to please any heirloom lover. High yielding.
44073	Pink Girl	76	FM, HG	8	GS	D	INDT	ASC, FR ¹ , GLS, VW	A smooth pink hybrid for home garden or market.
44085	RuBee Dawn	57	FM/ HG	7	GS	C	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 at maturity. The compact plant has short internodes, is open with mid vigor, and is well suited for staked open field and high tunnel.
44124	RuBee Goddess	60- 65	FM/ HG	7	GS	C	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 productive plant with strong disease resistance. The fruit are globe in shape, firm and have a deep red color at maturity. The mid-compact plant has short internodes, with mid-strong vigor and is well suited for staked open field and high tunnel.

GROWER PREFERRED ALL-STARS ★ TOMATOES

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.

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

LARGE ROUNDS CONTINUED

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 with out 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.

CHERRY/GRAPE

SunSugar is an indeterminate yellow cherry tomato with great eating quality and good crack resistance. Growers have been relying on SunSugar for years.

Liz Meredith
Vegetable Consultant





PINK DELICIOUS



RUBEE DAWN



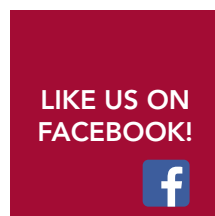
RUBEE GODDESS



BHN-964 ★



CAROLINA GOLD ★



FLORIDA 7514



GRAND MARSHALL



LAGUNA RED








MOUNTAIN MAN



RAMBLER



RED SNAPPER ★

TOMATO		FRESH MARKET Hybrid							Pricing on page 134	
Item #	▼ Variety	Days	Use	Weight ounces	Shoulders	Shape	Habit	Disease	Features	
44209	BHN-871 	76	FM	10	UG	C	DT	FR, TMV, VW	A striking gold to tangerine colored globe shaped variety with firm, smooth fruit and improved taste and texture.	
44214	★ BHN-964	76	FM, S	10	UG	C	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	C	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	C	DT	ASC, FR ^{1,2} , GLS, VW	A Seminis hybrid with exceptional firmness and fruit quality.	
44159	Florida 7514 	75	FM, S	10	UG	C	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	C	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.	
44061	Laguna Red 	70	FM, S	8 - 12	UG	C	DT	ASC, FR ^{1,2} FCR, ToMV ^{0,1} VW ¹	A high quality determinate variety well suited for cool season production. Fruit are an attractive red, firm and smooth-shouldered with good flavor. Suited for both mature green and vine ripe markets. Medium tall plants that benefit from light pruning, and a mid-concentrated set.	
44071	Mountain Man	70	FM	10-12	UG	C	DT	SW	Ideal for eastern summer production. The strong plant type produces extra-large fruit with delicious flavor that keeps customers happily returning.	
44123	Rambler 	68- 72	FM, S	8 - 12	UG	C	DT	ASC, FR ^{1,3} FCR, GLS, SW, VW ¹	An adaptable, high quality determinate salad variety featuring high yield potential of jumbo and extra-large fruit. Fruit size, color, quality, and firmness are excellent. Suited for both mature green and vine ripe markets. The plants are medium-tall and benefit from light to no pruning.	
44063	★ Red Snapper	70	FM, S	8 - 12	UG	C	DT	ASC, FR ^{1,2} FCR, ToMV ^{0,1} VW ¹	A high quality determinate variety suited for cool season production. Fruit are an attractive red, firm and smooth-shouldered with good flavor. Suited for both mature green and vine ripe markets. Medium tall plants that benefit from light pruning, and a mid-concentrated set.	
More varieties on the next page -->										



ROADSTER ★



SAYBROOK



SKYWAY 687





STM2255 ★



WINDUP **NEW**



CHOCOLATE
SPRINKLES

TOMATO		FRESH MARKET Hybrid							
Item #	▼ Variety	Days	Use	Weight ounces	Shoulders	Shape	Habit	Disease	Features
44048 ★	Roadster 	67	FM, S	8 - 12	UG	C	DT	ASC, FR ^{1,2,3} , TSWV, VW	Produces early, large, red, and firm fruit with superior flavor. A determinate that is widely adapted and resistant to some common diseases. It can be harvested green or ripe and is suitable for shorter growing seasons or late planting.
44057	Saybrook	80	FM, S	10	UG	C	DT	GLS, N, SW, VW	This determinate round tomato is ideal for both the vine ripe and mature green market. The vigorous plant produces a large set of extra-large smooth fruit all the way to the top of plant with good canopy cover to reduce sunscald.
44022	Skyway 687	75	FM	11	UG	C	DT	FR ^{1,3} , N, SW, TYLC	With excellent interior color, firmness and good eating quality, it has a strong plant that provides consistent sized fruit up the plant. Fruit size is extra-large to jumbo.
44086 ★	STM2255 	70	FM, S	8 - 12	UG	C	DT	ASC, FCR, FR ^{1,2} , GLS, SW, TYLC, VW ¹	STM2255 is a very versatile and adaptable variety with high yield potential and good vine-ripe flavor. Fruit are an attractive red color, firm and have a good shelf-life. Can be used for both mature green and vine ripe markets. Plants are medium tall, have mid cover and benefit from pruning.
44100 NEW	Windup	80	FM, S	8	UG	C	DT	TMV, TYLC, ASC, FR ^{1,3} , GLS, VW ¹	Windup is a full-season determinate, fresh market tomato for the eastern U.S. suited for vine-ripe or gas ripened markets. It has shown to produce large to extra large fruits with excellent quality and uniformity. Good disease resistance package.

TOMATO FRESH MARKET Hybrid				M=1,000 seeds			
Priced per package		100 Seeds	500 Seeds				
Price per 1,000 seeds (M)				1M	5M	25M	100M
44188P	BHN-602 Pelleted	18.20	69.90	116.45	105.85	100.80	96.00
44209P	BHN-871 Pelleted	18.20	69.90	116.45	105.85	100.80	96.00
44214P	BHN-964 Pelleted	18.20	69.90	116.45	105.85	100.80	96.00
44126P	Carolina Gold Pelleted	13.60	52.15	86.85	78.95	75.15	71.55
44120P	Florida 47 R Pelleted	16.55	63.65	106.05	96.40	91.80	87.40
44159	Florida 7514	8.75	33.55	55.85	50.75	48.30	46.00
44045	Grand Marshall	19.60	75.25	125.35	113.95	108.50	103.30
44061P	Laguna Red Pelleted	19.65	75.55	125.90	114.45	109.00	103.80
44071	Mountain Man	13.15	50.40	83.95	76.30	72.65	69.15
44054P	Myrtle Pellet	15.90	61.15	101.85	92.55	88.10	83.90

TOMATO FRESH MARKET Hybrid				M=1,000 seeds			
Priced per package		100 Seeds	500 Seeds				
Price per 1,000 seeds (M)				1M	5M	25M	100M
44123P	Rambler Pelleted	22.05	84.75	141.25	128.40	122.25	116.40
44063P	Red Snapper Pelleted	22.05	84.75	141.25	128.40	122.25	116.40
44048P	Roadster Pelleted	19.75	75.90	126.50	115.00	109.50	104.25
44057P	Saybrook Pelleted	17.75	68.25	113.75	103.40	98.45	93.75
44022P	Skyway 687 Pelleted	18.00	69.15	115.25	104.75	99.75	95.00
44086	STM2255	30.40	116.80	194.60	176.90	168.45	160.40
44100	Windup	15.00	57.55	95.85	87.10	82.95	79.00
* Multiple packages may be used to fill orders for these quantities.							

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



GOLD SPARK



RUBY CRUSH



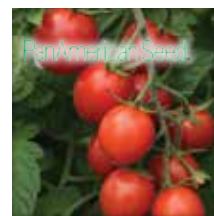
SUNSUGAR ★



SWEET GOLD



SWEET HEARTS



TIDY TREATS

TOMATO		CHERRY Hybrid					
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. Ships extremely well. Fewer picks of higher color fruit. Yields are unbelievable.
44059	Chocolate Sprinkles 🌱	55	.4 - .5	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	.4 - .5	Grape	INDT	Ff, ToMV ^{0,2} , GLS	Gold Spark a great tasting indeterminate yellow grape with high yield and consistent 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	.3 - .5	Grape	INDT		A superior flavored grape tomato from with firm, excellent shaped red fruit.
44047	Ruby Crush 🌱	65	.4 - .5	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.
44169	★ SunSugar	62	0.5	Cherry	INDT	F1, TMV	A Seminis yellow cherry with high sugars and vitamin A. Has good crack resistance and is early.
44021	Super Sweet 100	75	1	Cherry	INDT	FR ¹ , TMV, VW	Popular cherry hybrid.
44125	Sweet Gold	65	.3 - .5	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	.4 - .5	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	.2 - .4	Cherry	DT	FR, VW	Tons of fruit on a compact plant. Good in small-space gardens and containers.

TOMATO CHERRY Hybrid		M=1,000 seeds				
Priced per package		100 Seeds	500 Seeds	1M	5M	25M
Price per 1,000 seeds (M)						
44030	Aligote	32.40	107.50	179.15	170.90	162.75
44140P	BHN-268 Pelleted	47.30	157.05	261.70	249.20	237.30
44059	Chocolate Sprinkles	25.45	84.40	140.65	134.20	127.80
44087	Gold Spark	64.00	212.60	354.30	337.40	321.30
44103	Husky Cherry Red	6.95	25.60	40.90	35.55	32.30
44165	Red Grape	28.95	96.05	160.05	152.70	145.40
44047	Ruby Crush	48.90	162.45	270.70	258.30	246.00

TOMATO CHERRY Hybrid		M=1,000 seeds				
Priced per package		100 Seeds	500 Seeds	1M	5M	25M
Price per 1,000 seeds (M)						
44169	SunSugar	11.10	41.00	65.55	57.00	51.80
44021	Super Sweet 100	9.40	34.65	55.40	48.15	43.75
44125	Sweet Gold	6.65	24.45	39.10	34.00	30.90
44199	Sweet Hearts	59.25	196.75	327.90	312.25	297.35
44222	Sweet Treats	56.10	186.35	310.55	295.75	281.65
44049	Tidy Treats	13.70	45.45	75.75	72.25	68.80
* Multiple packages may be used to fill orders for these quantities.						



ARTISAN BUMBLE
BEE MIX

FINANCING AVAILABLE

Options include 0% interest
with no payments until
December 2025.

See page 155 for all of the details!

Best rates available before 12/31/2024

0%



FORONTI




TORERO



SYNERGY
ROOTSTOCK

TOMATO		CHERRY Open Pollinated				
Item #	▼ Variety	Days	Weight ounces	Shape	Habit	Disease Features
44068	Artisan Bumble Bee Mix	70	.7 - .8		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.
44507	Red Cherry	72			INDT	Uniform, sweet, 1" fruit; great for home gardens.

TOMATO		GREENHOUSE 				
Item #	▼ 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 intermediate 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				Germinates extremely well. Arnold has a more generative effect on the plant and is therefore suitable for vigorous varieties, late plantings in the spring or in vegetative conditions; such as with growers that produce without heat to save energy.
44185	Maxifort Rootstock					Maxifort is the most popular rootstock in North America. Very strong vigor. High Resistance to: ToMV-Tomato Mosaic Virus; Fol:0,1-Fusarium oxysporum races 0 and 1; For-Fusarium oxysporum fsp. Radicis-lycopersici - crown rot; PI-Pyrenochaeta lycopersici - corky root; Va-Verticillium albo-altum; Vd-Verticillium dahliae; Ma-Meloidogyne arenaria; Mi-meloidogyne incognita; Mj-Meloidogyne javanica.
44180	Multifort Rootstock					Provides excellent vigor for long seasons. Great pairing for varieties that require additional protection against Fusarium, adding miles to crops under pressure. High Resistance to: ToMV-Tomato Mosaic Virus; Fol:1-3 Fusarium oxysporum races 1-3; For-Fusarium oxysporum fsp. PI-Pyrenochaeta lycopersici - corky root; Va-Verticillium albo-altum; Vd-Verticillium dahliae; Ma-Meloidogyne arenaria; Mi-meloidogyne incognita; Mj-Meloidogyne javanica.
44058	Synergy Rootstock					Synergy has medium strong vigor and is well suited to balance high vigor scions. It is best suited for medium and short cycles and non-heated conditions. Well suited for specialty type tomatoes. High Resistance to: Ff:A-E / Fusarium wilt: 1-3 / FCR / ToMV: 0-2 / Va: 1 / VW: 1 / Intermediate Resistance to: Root knot nematode / Corky root.

TOMATO CHERRY Open Pollinated		M=1,000 seeds			
Priced per package		100 Seeds	500 Seeds		
Price per 1,000 seeds (M)				1M	5M
44068	Artisan Bumble Bee Mix	8.80	32.45	51.85	45.05
Priced per package		1/2 oz	1 oz	4 oz	1#
44507	Red Cherry	7.00	10.45	36.00	100.00

TOMATO GREENHOUSE		M=1,000 seeds			
Priced per package		100 Seeds	500 Seeds		
Price per 1,000 seeds (M)				1M	
44026	Caiman	48.70	187.20	312.00	
44093U	Foronti Untreated	133.50	513.45	855.70	
44020U	Torero Untreated	130.20	500.70	834.45	
44198P	Arnold Rootstock Pelleted	63.80	245.35	408.85	
44185U	Maxifort Rootstock Untreated	49.05	188.50	314.15	
44180U	Multifort Rootstock Untreated	47.20	181.45	302.40	
44058	Synergy Rootstock	52.60	202.30	337.15	
* Multiple packages may be used to fill orders for these quantities.					
Other Tomatoes & Cucs for greenhouse production are available. Ask us.					



BHN-768



INCA



MARIANA ★



SAN MARZANO

ORDERS
OVER \$350
ARE SHIPPED
FREE!

TOMATO		PROCESSING / SALADETTE Hybrid						
Item #	▼ Variety	Days	Use	Weight ounces	Shape	Habit	Disease	Features
44202	BHN-768	74	FM, S	4	F	DT	FR, SW	A BHN Roma that produces high yields of very classy tomatoes. The deep blocky globe fruit are uniform green and jointless. For either bedding plants or market.
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, FR ^{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.

TOMATO		OP	
Item #	▼ Variety	Days	Features
44510	Ace 55 VF	80	Disease-resistant Ace strain.
44506	Beefsteak	80	Also known as Red Ponderosa or Crimson Cushion. Fruits are large, flattened, and irregular shaped.
44529	Delicious	77	Large 1 lb. fruit with overall high quality. Nearly solid interiors with very small seed cavity.
44502	Jubilee Golden	80	AAS winner. Fruit is large, deep orange-yellow color, meaty with a mild flavor.
44504	Marglobe	72	A solid, mild fleshed tomato that is suitable for home garden and processing.
44526	Red Pear	80	Two-inch long fruit with a distinct elongated neck that is unique to this variety.
44508	Roma VF	78	A heavy-yielding, processing tomato for the home gardener. Vines are compact, pear shaped fruit.
44525	Yellow Pear	75	Mild sweet flavor, uniform fruit 1 1/2 inches long.

TOMATO PROCESSING/SALADETTE Hybrid							
Priced per package		100 Seeds	500 Seeds				
Price per 1,000 seeds (M)				1M	5M	25M	100M
44202P	BHN-768 Pelleted	17.25	66.25	110.40	100.35	95.55	91.00
44062P	BHN-1045 Pelleted	18.20	69.90	116.45	105.85	100.80	96.00
44555	Inca	17.20	66.00	110.00	100.00	95.20	90.65
44176P	Mariana Primed Pelleted	15.05	57.85	96.35	87.55	83.35	79.35
44091	San Marzano	12.05	46.30	77.10	70.05	66.70	63.50

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

TOMATO OP					
Priced per package		1/2 oz.	1 oz.	4 oz.	1#
44510	Ace 55 VF	8.50	12.75	43.95	122.00
44506	Beefsteak	7.85	11.75	40.50	112.50
44529U	Delicious Untreated	8.35	12.50	42.95	119.20
44502	Jubilee Golden	10.15	15.25	52.50	145.70
44504	Marglobe	8.50	12.75	43.95	122.00
44526	Red Pear	10.95	16.45	56.70	157.50
44508	Roma VF	7.85	11.75	40.50	112.50
44525	Yellow Pear	10.95	16.45	56.70	157.50

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TOMATO		HEIRLOOM				
Item #	▼ Variety	Days	Flesh Color	Use	Weight	Features
44723	Amish Paste	85	Red	HG	8 oz.	An Amish heirloom variety with paste type fruit and outstanding sweet flavor. Fruit are oblong oxheart shaped.
44701	Brandywine, Pink	85	Pink	FM, HG	10 - 16 oz.	A tomato from the 1800's known for being the standard setter for flavor. Potato leafed, indeterminate with pinkish red fruit.
44712	Cherokee Purple	80	Burgundy	FM, HG	10 - 12 oz.	Burgundy colored fruit with green shoulders and delicious sweet flavor. Gel around seed stays green with deep burgundy flesh, a beautiful variegation that looks as good as it tastes.
44733	German Pink	85	Pink	FM, HG	12 - 24 oz.	One of two original Bavarian varieties. Potato-leaf plants produce large 1-2 lb meaty fruit with few seeds, very little cracking or blossom scars. Sweet flavor.
44722	Green Zebra	75	Green	FM, HG	3 oz.	A delicious salad tomato with flavorful flesh. A sweet and zingy, tasty treat.
44734	Hillbilly Potato Leaf	85	Yellow fruit red stripes	HG	16 oz.	Absolutely gorgeous slicing tomato that is similar to Mr. Stripey. Sweet 4-6" flattened fruits.
44705	Mortgage Lifter	80	Pink	HG	16 oz.	From the "Great Depression", an indeterminate vined variety with large, very firm, pink fruit with good flavor. Productive.
44709	Old German	75	Yellow Orange	HG	16 oz.	Large, yellow fruit with orange centers. Very sweet, excellent flavor.
44725	Prudens Purple	75	Dark Pink	FM, HG	10 - 16 oz.	Large, dark pink fruit that mature quite early, with delicious flavor and good production. Has indeterminate potato leaved vines.
44737	Red Brandywine	85	Red	FM, HG	10 - 16 oz.	The red version of Brandywine originating from the late 1800's. Very productive, excellent taste. Indeterminate.

TOMATO HEIRLOOM		M=1,000 seeds				
Priced per package		250 Seeds	500 Seeds*			
Price per 1,000 seeds (M)				1M	5M	10M
44723	Amish Paste	6.95	8.45	11.10	8.20	6.70
44701	Brandywine, Pink	6.95	8.45	11.10	8.20	6.70
44712	Cherokee Purple	6.95	8.45	11.10	8.20	6.70
44704	Currant Yellow	6.95	8.45	11.10	8.20	6.70
44733	German Pink	6.95	8.45	11.10	8.20	6.70
44722	Green Zebra	6.95	8.45	11.10	8.20	6.70
44734	Hillbilly Potato Leaf	6.95	8.45	11.10	8.20	6.70
44705	Mortgage Lifter	6.95	8.45	11.10	8.20	6.70
44709	Old German	6.95	8.45	11.10	8.20	6.70
44726	Persimmon	6.95	8.45	11.10	8.20	6.70
44725	Prudens Purple	6.95	8.45	11.10	8.20	6.70
44737	Red Brandywine	6.95	8.45	11.10	8.20	6.70
* Multiple packages may be used to fill orders for these quantities.						

TURNIPS / RUTABAGA			
Item #	▼ Variety	Days	Features
45006	Alamo ^{F1}	48	50% higher yielding than the standards with excellent flavor. Taste comparable with standard turnip greens.
45003	All-Top ^{F1}	50	A hybrid for greens only. Dark green leaves with many branches for exceptional yields.
45002	Just Right ^{F1}	70	A very large white type turnip with excellent uniformity. Fall to winter cold tolerance.
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.
45503	Seven Top	60	A turnip grown for greens only.
45502	Shogoin	60	A dual purpose turnip grown for tops and large roots.
45001	Tokyo Cross ^{F1}	35	A very early, perfect globe shaped root. Can be harvested from 2 - 6" without risk of getting pithy.
45004	Topper ^{F1}	60	A heavy yielding Seven Top type with thick hairless leaves that are less lobed than Seven Top.
45507	White Egg	50	A 3 - 4" egg shaped, sweet tender root popular both for the home garden or market.
49011	White Lady ^{F1}	50	A turnip with superior eating quality, harvestable small or up to 5". Pubescence free stems, tender and suitable for greens. Spring, summer or autumn sowing.

TURNIPS / RUTABAGA

	Priced per package		1 oz. 4 oz.		
	Priced per pound		1#	5#	50#
45006 Alamo			14.90	48.80	136.50 136.00
45003 All Top			11.20	36.65	102.50 102.00
45002 Just Right			18.70	64.95	181.55 180.55
45903 Laurentian ^{Rutabaga}			4.00	13.75	38.45 37.45
45501U Purple Top White Globe ^{Untreated}			6.55	16.00	15.50 15.00
45503U Seven Top ^{Untreated}			6.55	16.00	15.50 15.00
45502U Shogoin ^{Untreated}			7.45	18.25	17.75 17.25
45001 Tokyo Cross			25.15	87.35	244.30 243.30
45004 Topper			14.25	46.70	130.50 130.00
45507U White Egg ^{Untreated}			7.45	18.25	17.75 17.25
49011 White Lady			22.10	72.40	202.50 202.00



ESTRELLA ★ pg.141

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 149 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°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



COMPADRE



JAMBOREE



SAFARI **NEW**



SANGRIA ★



JADE STAR



YELLOW DOLL

WATERMELON		LARGE Hybrid							
Item #	▼ Variety	Days	Shape	Weight pounds	Rind Type	Flesh Color	Seed Size	Disease	Features
46124	Compadre	82	Oval	20 - 25	Crimson Sweet	Bright Red		F ^{1&2} , GSB	A D. Palmer hybrid with a strong vine, high yields and a good disease package.
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 pollinizer for seedless production.
46088	Jamboree	88	Elongated	25 - 27	Allsweet	Deep Red		A, F	An excellent choice when size commands a premium! Produces large, very uniform fruit.
46063	NEW Safari	Early	Elongated	25 - 30	Allsweet	Bright Red		A ¹	Safari has high tolerance to internal cracking. Yielding maximum fruits, it leaves little waste and has high field holding for a flexible harvest. Can be used as a pollinizer for seedless production.
46030	★ Sangria	85	Elongated	18 - 22	Allsweet	Bright Red	Large	A, F	Good field performance with excellent taste.

WATERMELON		ICEBOX Hybrid							
Item #	▼ Variety	Days	Shape	Weight pounds	Rind Color	Flesh Color	Seed Size	Disease	Features
46051	Jade Star <small>Pata Negra</small>	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	68	Oval	5 - 7	Medium Green / Dark Stripes	Yellow	Small		Unusual, very sweet home garden hybrid. Crisp flesh.

WATERMELON LARGE Hybrid		M=1,000 seeds			
Priced per package		250 Seeds			
Price per 1,000 seeds (M)			1M	5M	10M*
46124	Compadre	26.65	68.75	63.75	58.75
46041	Estrella	45.15	116.45	111.45	106.45
46088	Jamboree	44.30	114.25	109.25	104.25
46063	Safari	34.65	89.40	84.40	79.40
46030	Sangria	47.50	122.55	117.55	112.55

*NOTICE WATERMELON GROWERS: Customers are required to sign a "Waiver of Liability" form, prior to the shipping of any watermelon seed.

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

WATERMELON ICEBOX		M=1,000 seeds			
Priced per package		250 Seeds			
Price per 1,000 seeds (M)			1M	5M	10M*
46051	Jade Star	39.80	109.75	102.25	97.25
46005	Yellow Doll	44.85	123.65	116.15	111.15

* 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 149 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°F and at a humidity level of 90 - 95%. This will ensure a long shelf life.



SWEET DAWN ★ pg. 143



AMARILLO



DARK KNIGHT



EL CAPITAN ★



EXCLAMATION



FASCINATION ★



GOLDEN CRISP **NEW**



JET SKI



JOY RIDE



MELODY



POWERHOUSE **NEW**



SANDBAR **NEW**



SWEET GEM ★

WATERMELON		TRIPLOID Hybrid					Pricing on page 144
Item #	▼ Variety	Days	Shape	Weight pounds	Rind Type	Flesh Color	Features
46093	Amarillo	82	Globe	13 - 15	Tiger Stripe	Yellow	A melon with deep yellow flesh and less tendency to hollow heart.
46049	Dark Knight	80	Globe	14 - 17	Dark Green	Dark Red	Eye-catching with its globe shape and dark green smooth exterior. Dark red flesh with medium firmness. Slightly larger than Sweet Gem.
46052	★ El Capitan	85-90	Blocky Oval	16 - 20	Wide dark green stripes	Deep Red	A triploid watermelon with an attractive darker Crimson Sweet rind pattern. This variety has shown excellent yield potential as well as extended shipping and field holding ability. Uniform, blocky-shaped fruit on vigorous vines. Deep red, firm flesh, small pip size and excellent flavor.
46013	Exclamation	90	Blocky	17 - 21	Crimson Sweet	Dark Red	Full-season maturity seedless variety. Produces blocky, firm-fleshed fruit of uniform size with an attractive rind, small pips and sweet flesh.
46140	★ Fascination	85	Blocky	17 - 21	Crimson Sweet	Dark Red	A variety with very firm, high quality flesh with small pips. Exhibits improved disease tolerances to Fusarium and Anthracnose.
46155	NEW Golden Crisp	85	Oblong	14-16	Dark Green	Yellow	This fruit boasts a remarkably bright yellow firm flesh and a dark green rind. Great for fresh markets.
46100	Jet Ski	78	Oblong	14-16	Mottle Stripe	Dark Red	Jet Ski is an early, 45 count, mottle stripe watermelon with high average degrees brix and has shown excellent quality with deep red interior color.
46026	Joy Ride	86	Oblong	19 - 20	Mottle Stripe	Dark Red	Highly adaptable and suitable hybrid for growing across all regions of the country. Produces a large percentage of 36-count watermelons. Offers a thick rind and firm fruit with uniform setting. Has a vigorous plant type with good canopy coverage. Has shown a high, industry leading average degrees Brix of 11.5 in trials, surpassing all comparable varieties.
46134	Melody	80	Globe	14 - 16	Allsweet	Dark Red	Offers growers the advantage of an early maturing hybrid, with a heavy, concentrated and uniform fruit set.
46007	Orange Crisp	92	Round / Oval	14 - 18	Jubilee	Orange	The melons hold up for a very long time in and out of the field. Very crisp and firm flesh. Yellow-orange flesh turns more orange as it matures and the taste improves with time. Don't pick too early!
46053	NEW Powerhouse	86	Blocky	17	Crimson Sweet	Red	Produces uniform, blocky fruit with firm flesh, great internal color and full flavor. Offers high yield potential, a high percentage of 45-count fruit and early market advantage.
46062	NEW Sandbar	82	Oblong	14-17	Dark Mottle Stripe	Red	Sandbar is a 45-count melon that has a vigorous plant with good yield potential. Outstanding internal characteristics with high uniformity of fruit size and shape.
46102	★ Sweet Dawn	76	Blocky	16 - 20	Crimson Sweet	Dark Red	Early variety that produces high yields, offering growers significant first to market advantages. Firm and sweet, it's ideal for retail markets.
46008	★ Sweet Gem	83	Oval	12	Dark Green	Bright Red	High-yielding seedless variety that produces uniform, large, oval fruit with a rich, classy rind. Its distinctive look and superior flavor make it ideal for the fresh market and a standout in the produce aisle.

More varieties on the next page -->



TAILGATE



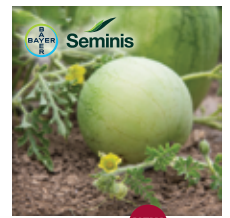
VIRTUE

YELLOW
BUTTERCUP

SIRIUS ★



WILD CARD PLUS

WINGMAN **NEW**

WATERMELON

TRIPLOID Hybrid

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

WATERMELON TRIPLOID Hybrid

M=1,000 seeds

	Priced per package	100 Seeds		500 Seeds		
		Price per 1,000 seeds (M)		1M	5M	10M*
46093 Amarillo ^{Yellow}		73.20	292.80	500.50	493.00	488.00
46001 Bold Ruler ^{F400}		35.55	142.10	242.90	235.40	
46049 Dark Knight		73.65	294.55	503.50	496.00	491.00
46052 El Capitan		51.50	205.90	351.90	344.40	339.40
46013 Exclamation		54.20	216.80	370.55	363.05	358.05
46140 Fascination		55.10	220.30	376.50	369.00	364.00
46155 Golden Crisp		71.75	286.95	490.50	483.00	478.00
46100 Jet Ski ^{F400}		42.40	169.50	289.70	282.20	277.20
46026 Joy Ride		47.50	189.85	324.50	317.00	312.00
46134 Melody		59.60	238.40	407.50	400.00	395.00
46007 Orange Crisp		52.75	210.90	360.50	353.00	348.00
46053 Powerhouse		53.75	215.00	367.50	360.00	355.00
46062 Sandbar		45.00	179.90	307.50	300.00	295.00

WATERMELON TRIPLOID Hybrid

M=1,000 seeds

	Priced per package	100 Seeds		500 Seeds		
		Price per 1,000 seeds (M)		1M	5M	10M*
46102 Sweet Dawn		60.45	241.80	413.25	405.75	400.75
46008 Sweet Gem		73.65	294.55	503.50	496.00	491.00
46039 Tailgate		49.35	197.40	337.40	329.90	324.90
46153 Virtue		58.15	232.55	397.50	390.00	385.00
46021 Yellow Buttercup		67.25	268.95	459.70	452.20	447.20
Personal Size						
46045 Sirius		47.35	189.25	323.45	315.95	310.95
Pollenizers						
46109 Wild Card Plus		39.30	157.20	268.70	261.20	256.20
46042 Wingman ^{F300}		15.15	60.45	103.25	95.75	90.75

*NOTICE WATERMELON GROWERS: Customers are required to sign a "Waiver of Liability" form, prior to the shipping of any watermelon seed.

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

GROWER PREFERRED ALL-STARS ★ WATERMELON

LARGE SEEDED

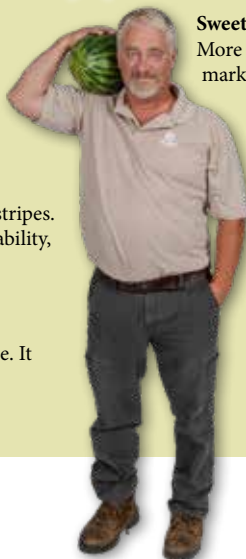
Estrella is early (80 days) with excellent flavor and texture, nice consistently blocky fruit that has a great look at the market.

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		OP						
Item #	▼ Variety	Days	Shape	Weight pounds	Rind Color	Flesh Color	Seed Size	Features
46501	Allsweet 	90	Elongated / Oval	25 - 30	Medium Green / Thin Stripes	Bright Red	Small	Excellent fresh market variety. Firm flesh.
46502	Charleston Grey 	90	Elongated / Oval	25 - 35	Light Green / Dark Veins	Medium Red	Large	A popular heirloom variety for the home garden that is especially popular in the South.
46504	Crimson Sweet 	85	Blocky	15 - 30	Light and Dark Stripes	Brilliant Red	Medium	Popular variety for garden, market or shipping.
46507	Jubilee Improved 	95	Elongated / Oval	25 - 35	Light Green / Dark Stripes	Medium Red	Large	Excellent late shipper.
46533	Moon & Stars 	90	Elongated / Oval	20	Dark Green / Various Marks	Red Pink	Large	An Amish heirloom variety with its noted dark green ring with yellow moons and stars. Flesh is pink and sweet.
46509	Sugar Baby 	80	Round	8 - 10	Dark Green	Deep Red	Small	Popular home garden. Also works well as pollinizer for triploid hybrids.

WATERMELON OP

	Priced per package	1 oz.	4 oz.	1#
46501	Allsweet	6.25	21.70	57.75
46502	Charleston Grey	7.05	24.45	65.15
46504	Crimson Sweet	5.95	20.65	55.00
46507	Jubilee Improved	6.55	22.65	60.40
46533	Moon & Stars	6.55	22.65	60.40
46509	Sugar Baby	6.55	22.65	60.40

*NOTICE WATERMELON GROWERS: Customers are required to sign a "Waiver of Liability" form, prior to the shipping of any watermelon seed.

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.



SAVE WITH CASH DISCOUNTS

The earlier you order the more you'll receive!

See page 154 for all of the details.

November	7%
December	6%
January	5%
February	4%
March	3%
April	2%



RUPP KNIT HAT



RUPP HOODIE



RUPP CAMO CAP



RUPP KHAKI &
BLACK CAP

LIKE US ON
FACEBOOK!



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 clothing.			

RUPP CLOTHING	RECOMMENDED SIZE CHART						
	XS	S	M	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**	X	S	M	L	1	2	3
** Use item number plus size code. Add a 'T' to the end for tall sizes.							

CLOTHING									
	Size	XS	S	M	L	XL	2XL	3XL	
	Size codes	X	S	M	L	1	2	3	
P.JKT.SWT.HD	Rupp Hoodie Sweatshirt			37.50	37.50	37.50	37.50	40.00	40.00
PHAT.KNIT.1	Rupp Knit Hat	15.00							
PHAT.MESH.G4	Rupp Camouflage Mesh Cap	15.00							
PHAT.MESH.G5	Rupp Khaki & Black Mesh cap	15.00							
Prices include shipping. Allow 3-4 weeks for delivery.									
Cash discounts are not available on clothing.									



BENTLEY 500 PACK



BENTLEY 250 PACK



1 OZ. PACKET



4 OZ. PACKET



BIN MARKERS

BENTLEY PACKET STANDS

Item #	▼ Variety	Description
VP500A	500 pack Assorted - V,F,H	500 pre-priced ^{\$1.99} packets of assorted vegetable, flower and herb seeds. 48 different varieties. 60% vegetables, 30% flowers and 10% herbs. Corrugated floor display.
VP500V	500 pack Vegetables	500 pre-priced ^{\$1.99} packets of assorted vegetable seeds. 48 different varieties. Corrugated floor display.
VP500F	500 pack Flowers	500 pre-priced ^{\$1.99} packets of assorted flower seeds. 48 different varieties. Corrugated floor display.
VP250H	250 pack Herbs	250 pre-priced ^{\$1.99} packets of assorted herb seeds. Corrugated counter top display.

These stands contain Bentley home garden quality seed. Orders must be placed by February 28th, 2025. Thirty day lead time is needed. Non-returnable! Pricing includes shipping charges.

BENTLEY PACKET STANDS

	Priced per stand	1 Stand
VP500A 500 pack Assorted - V,F,H		450.00
VP500V 500 pack Vegetables & Herb		450.00
VP500F 500 pack Flowers		450.00
VP250H 250 pack Herbs		350.00

Pricing includes shipping charges.

POINT OF SALE

Seed Packets	Priced per box of 500 packets	Box
VPOS.PACKET.1Z 1 oz seed packets - 3 1/4" x 4 3/4"		60.00
VPOS.PACKET.4Z 4 oz seed packets - 4 5/8" x 6 7/8"		80.00
Bin Markers		
VPOS.BINMARK 4 3/4" x 6 3/4" Bin Marker - Pack of 25		2.50

PLANTER PLATES

	Priced per plate	1 plate
B John Deere Plates		75.00
C IH Plates		75.00
F Filler Ring		75.00

Give us a call about your planter plate needs. We have a limited supply of blank plates available for you to make your own cells for those hard to fit seeds.

SEED RETAILERS**Are you interested in pre-packaged beans, peas & sweet corn seed for retail sales?**

Select varieties are available pre-packaged in small poly-bags that are ready for retail sales. Give us a call for a list of varieties available and pricing. Orders for pre-packaged seed must be placed by January 29, 2025.

POPPING CORN**RESELL IN YOUR MARKET!**

Item #	▼ Variety	Features
VPPOP.SUNBURST	Rupp Golden Sunburst <small>Ready to pop!</small>	A superior yellow popcorn chosen for its outstanding popping expansion, tenderness and flavor. An exceptional product for home use. Available in cases of 15 - 2 lb. bags in our attractive package ready for retail shelves, or in 50 lb. bags for larger users.
VPPOP.WHDELIGHT	Rupp White Delight <small>Ready to pop!</small>	A white version of Golden Sunburst. Same great popping and eating quality. Only available in 50 lb. bags.

POPPING CORN

	Priced per case	Case
	Priced per 50 pounds (includes shipping)	50#
VPPOP.SUNBURST Golden Sunburst Popping Corn	93.50	117.50
VPPOP.WHDELIGHT White Delight Popping Corn		120.00

A case consists of 15, 2# packages

Please Note: Prices include shipping.

PLANTING GUIDE										
^	Seeding Rate				Seed or Plant Spacing				Recommended Soil Temperature	Days to Germination
	Seeds per Pound	per Acre by Weight	per Acre in 1000s	Seeds per 1000 foot of Row	In Row	Between Rows	Depth			
Asparagus	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"	.3 - .5"	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"	.3 - .5"	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"	.3 - .5"	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"	.2 - .5"	85 - 90°F	10 - 14	
Endive	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	
Kale	124,000 - 136,000	1.9 - 2.9 oz	15.2 - 24.2 M	667 - 800	15 - 18"	18 - 24"	.25 - .5"	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"	.25 - .5"	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	
Lettuce	364,000 - 432,000	3 - 3.4 oz	68.1 - 90.8 M	3,000	4"	18 - 24"	.3 - .5"	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	
Onion	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"	.3 - .5"	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 <small>Twin row on plastic</small>	64,000 - 76,000	2.2 - 2.6 oz	9.1 - 12.1 M	500 - 667	18 - 24"	12"	.3 - .5"	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"	.5 - .8"	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"	.5 - .75"	70 - 80°F	7 - 10	
Squash Winter	3,000 - 4,000	1 - 1.3 lbs	2.9 - 5.1 M	500 - 667	18 - 24"	72 - 96"	.5 - .75"	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	
Tomato	140,000 - 165,000	0.8 - 0.8 oz	7.6 M	667	18"	48"	.25 - .5"	60 - 75°F	7 - 10	
Turnip	173,000 - 192,000	1.4 - 1.6 lbs	272.2 M	6,000	2"	12"	.3"	60 - 75°F	6 - 10	
Watermelon Large	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	

GERMINATION CHART PERCENTAGE OF NORMAL VEGETABLE SEEDLINGS

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% (10 d)	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% (8 d)	47% (6 d)	39% (6 d)	0
Beets	0	53% (42 d)	72% (17 d)	88% (10 d)	90% (6 d)	97% (5 d)	89% (5 d)	35% (5 d)	0
Cabbage	0	27	78% (15 d)	93% (9 d)	97% (6 d)	99% (5 d)	70% (4 d)	0	0
Carrots	0	48% (51 d)	93% (17 d)	95% (10 d)	96% (7 d)	96% (6 d)	95% (6 d)	74% (9 d)	0
Cauliflower	0	0	58% (20 d)	60% (10 d)	62% (6 d)	63% (5 d)	45% (5 d)	0	0
Celery	0	72% (41 d)	70% (16 d)	40% (12 d)	97% (7 d)	65%	0	0	0
Cucumber	0	0	0	95% (13 d)	99% (6 d)	99% (4 d)	99% (3 d)	99% (3 d)	49
Eggplant	0	0	0	0	21% (13 d)	53% (8 d)	60% (5 d)	0	0
Lettuce	98% (49 d)	98% (15 d)	98% (7 d)	99% (4 d)	99% (3 d)	99% (2 d)	12% (3 d)	0	0
Muskmelon	0	0	0	0	38% (8 d)	94% (4 d)	90% (3 d)	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% (5 d)	97% (4 d)	91% (4 d)	73% (13 d)	2
Parsley	0	0	63% (29 d)	0% (17 d)	69% (14 d)	64% (13 d)	50% (12 d)	0	0
Parsnips	82% (172 d)	87% (57 d)	79% (27 d)	85% (19 d)	89% (14 d)	77% (15 d)	51% (32 d)	1	0
Peas	0	89% (36 d)	94% (14 d)	93% (9 d)	93% (8 d)	94% (6 d)	86% (6 d)	0	0
Peppers	0	0	1	70% (25 d)	96% (13 d)	98% (8 d)	95% (8 d)	70% (9 d)	0
Radish	0	42% (29 d)	76% (11 d)	97% (6 d)	95% (4 d)	97% (4 d)	95% (3 d)	0	0
Spinach	83% (63 d)	96% (23 d)	91% (12 d)	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% (4 d)	91% (4 d)	88% (3 d)	10
Tomatoes	0	0	82% (43 d)	98% (14 d)	98% (8 d)	97% (6 d)	83% (6 d)	46% (9 d)	0
Turnips	1	14	79% (5 d)	98% (3 d)	99% (2 d)	100% (1 d)	99% (1 d)	99% (1 d)	88% (3 d)
Watermelon	0	0	0	17	94% (12 d)	90% (5 d)	92% (4 d)	96% (3 d)	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





Rupp Seeds Inc.
17919 County Road B
Wauseon, Ohio 43567

419-337-1841
fax 419-337-5491
www.ruppseeds.com

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) (www.betterseed.org), Independent Professional Seed Association (IPSA) (ipseed.org) and Ohio Seed Improvement Association (OSIA) (www.ohseed.org).

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



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

House Packing Facility, Storage and Transportation

Various Seeds

Jennifer A. Dougherty
Chief, Audit Services Branch

Audit ID: 50395

9/17/2024

Audits are valid for one year from date on certificate. To verify continued adherence to the program, please visit www.ams.usda.gov/gapghp

BOOST YOUR BUYING POWER

Planning ahead can **SAVE YOU BIG!**

Prepay into your Rupp account with a cash/check payment, and you'll boost your buying power!

BIG Savings to Your Account!

Nov 7%	Dec 6%	Jan 5%
Feb 4%	Mar 3%	Apr 2%

It's easy! Simply send a check of more than **\$350**. This will be used as prepayment towards your 2025 seed order. That's it! Savings are automatically applied. **Total savings are based on the amount paid** and the **postmark date** on your envelope.



Find all the details
on page 154.

NOTICE TO BUYERS

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 WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTY OF MERCHANTABILITY AND THE WARRANTY OF FITNESS FOR A PARTICULAR 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, VISA or John Deere Financial. 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 allow 7-10 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.

Electronic Bank Payments

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.

Seed Financing

We offer a variety of financing programs that provide post-harvest payment flexibility. Our premier program features 0% interest where payment isn't due until December 2025. Check the Financing Programs section for more details.

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%	April	2.0%
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.

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

POST HARVEST FINANCING PROGRAMS

With our post-harvest financing programs, you have the flexibility to manage your cash flow throughout the growing season.

Our premier post-harvest financing program features 0% interest until December 2025 on orders placed before December 31, 2024.

For orders placed later in the season, we are offering additional financing programs which provide the benefit of low interest rates, with no payment required until the final settlement date of December 2025. Here's a list of all the programs planned for the 2025 sales season:

Availability	Program
Through December 2024	0% Fixed
For January & February '25	3.9% Fixed
For March & April '25	Prime* + 1%
For May through August '25	Prime* + 6.1%

** These are variable rate programs based on the prime rate, which was 8.5% as of 8/27/24.

Please note the following details about JD financing programs:

- Initial order for the season must total \$1,000 or more.
- Orders must be placed before December 31, 2024, to be eligible for 0% financing program.
- John Deere Financial orders are not eligible to receive cash discounts.
- You must have a John Deere Financial Preferred Account with Special Terms Financing to be eligible. Call our office at 800-700-1199 to find out if your account is ready to take advantage of this new financing option.
- If not, you will need to fill out a credit application and John Deere Financial will fast track the approval, or apply online at www.ruppseeds.com/JDFAApp, or call 800-356-9033. Be sure to indicate to John Deere Financial that you need a **Special Terms credit limit** and let them know an expected crop input budget. If you fill out the form online you will need to visit a John Deere equipment dealer with two forms of identification before your account is accessible.
- You may also mail the application to our office and we will submit it for processing.
- Currently John Deere Financial financing options are only available for U.S. based customers.



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

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 send check, money order, VISA, Mastercard, Discover, or John Deere account number for payment. **Do NOT send cash.**
- To avoid delay in delivery, we advise ordering early. Our peak season runs from February through April. During this time orders received 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 pro-rate delivery.

Prices are in US dollars. Prices are subject to change without notice.

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.

PAYING FOR YOUR ORDER

We accept payment via credit or debit card, check, and wire transfer. Open account terms and financing are available for qualifying customers. Payment discounts are available for select payment methods and products. See page 154 for more details on cash discounts and financing options.

Cash Discounts!
on orders
over \$350.00
see page 154 for details

SHIPMENT OF YOUR ORDER

All orders will be shipped after payment has been received. If you are paying by 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.

Orders shipped to Alaska, Hawaii, Puerto Rico and International shipments will be charged actual shipping charges.

Our preferred and standard method of shipping is UPS Ground. Other UPS service levels (Next Day Air, 2nd Day Air and 3 Day Select) are available at the customer's expense.

Orders for priority shipping must be placed by 12:00 noon EST.

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.

Free Shipping!
on orders
over \$350.00

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

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, Rupp Seeds cannot and does not guarantee or warrant that such tests are totally conclusive nor that the seeds are free of the Pathogens 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 fully 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 Rupp Seeds Notice to Purchase Regarding Liability 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 _____

State _____ Zip _____

Phone # _____

Fax # _____

Printed Name _____

Title _____

Signature _____

Date _____



SEE WHAT GOOD YIELDS[®]

Release Agreement – Gold Dust

For seed below Rupp quality standards

We are informing you that Gold Dust pumpkin, lot number PCH1518 (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.

CUSTOMER

Signature: _____

Printed: _____

Date: _____

Farm/Business
Name: _____

Address: _____

Phone: _____

ATTRIBUTE STEWARDSHIP AGREEMENT

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 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 VOLUNTARILY ENTERING INTO THIS STEWARDSHIP AGREEMENT.				
Grower Name (Last, First, MI) <hr/> Farming or "Doing Business As" (d/b/a/ Name): <hr/> Address: _____ City: _____ State: _____ Zip Code: _____ Business Phone: _____ County: _____ E-mail Address: _____ (CANADA Only) Dealer Name: _____	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Grower Signature</td> <td style="width: 50%;">Date</td> </tr> <tr> <td colspan="2" style="text-align: center;">(Individual at farm level responsible for planting)</td> </tr> </table>	Grower Signature	Date	(Individual at farm level responsible for planting)	
Grower Signature	Date				
(Individual at farm level responsible for planting)					
Return Agreement using one of the following methods – please keep a copy for your records: Mail: Rupp Seeds 17919 County Road B Wauseon, OH 43567 Email: waivers@ruppseeds.com Fax: 1-419-337-5491	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 100%;">Grower Name (Please Print Clearly)</td> </tr> <tr> <td style="padding: 5px;"> 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). </td> </tr> </table>	Grower Name (Please Print Clearly)	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).		
Grower Name (Please Print Clearly)					
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, and 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 or any plant material containing the Licensed Technology for: (i) crop breeding, (ii) research (including, without limitation, agronomic testing or generation of cooperative data against sweet corn seed not containing the Licensed Technology), (iii) generation of registration data or production of Seed Product (unless Grower has entered into a valid, written production agreement with a licensed seed company expressly authorizing one or 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

REMEDY SWEET CORN – SUPPLEMENTAL AGREEMENT

Section A						
GROWER INFORMATION – Complete This Section - PLEASE PRINT CLEARLY						
Grower Name (Last, First, MI) _____ Farming or “Doing Business As” (d/b/a/ Name): _____ Address: _____ City: _____ State: _____ Zip Code: _____ Business Phone: _____ County: _____ E-mail Address: _____ Customer ID #: <u>(Assigned by Syngenta)</u> Technology #: <u>(Assigned by Syngenta)</u> Dealer Name: _____ Rupp Seeds _____ Dealer Number: _____ (Office Use Only) _____ Dealer Phone: _____ 1-800-700-1199 _____ Third Party Syngenta-Licensee: _____ (Office Use Only) _____	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. <table style="width: 100%; border-top: 1px solid black;"> <tr> <td style="width: 50%;">Grower Signature</td> <td style="width: 50%;">Date</td> </tr> <tr> <td colspan="2">(individual at farm level responsible for planting)</td> </tr> </table> <table style="width: 100%; border-top: 1px solid black;"> <tr> <td style="width: 100%;">Grower Name (Please Print Clearly)</td> </tr> </table> 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. Please return the agreement back to your Dealer at: Fax: 419-337-5491 Mail: Rupp Seeds, Inc. 17919 County Road B Wauseon, OH 43567 Email: waivers@ruppseeds.com	Grower Signature	Date	(individual at farm level responsible for planting)		Grower Name (Please Print Clearly)
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(individual at farm level responsible for planting)						
Grower Name (Please Print Clearly)						

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 be 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



MULTI-USE ACCOUNT™ AGRICULTURAL, COMMERCIAL & GOVERNMENTAL APPLICATION

CR3910400 Litho in U.S.A. (23-09)

When your application is completed, your John Deere Financial Merchant can fax it to 1-800-732-0251.

APPLICANT INFORMATION Fields marked with an asterisk (*) are required by law (USA PATRIOT ACT). Your application cannot be processed without this information.

Regular Limit Requested (Parts, Service, Everyday Essentials) \$ _____ Special Terms Limit Requested (Seed, Fertilizer, Herbicides, Fungicides and Insecticides) \$ _____

Your Primary Use ☐ Agricultural ☐ Commercial (Non-Ag) ☐ Governmental ☐ Other _____

Your Business Structure _____
(Sole Proprietor, Corporation, General Partnership, Limited Partnership, Limited Liability Company, Nonprofit, Government)

*Business Legal Name (Do not abbreviate) _____

*Tax ID # _____

(Or) *Individual's Legal First Name _____ Middle Initial _____ *Last Name _____

Suffix _____ *Date of Birth ____/____/____ Are you a U.S. citizen? ☐ Yes ☐ No

Applicant's Phone # _____ Alternate Phone # _____ *Social Security # _____

Email Address _____

*Applicant's Physical Street Address _____

*City _____ *State _____ *ZIP _____

County _____ Mailing or P.O.Box # (if different than Physical Street Address) _____

PRIMARY OWNER INFORMATION REQUIRED FOR PARTNERSHIPS, LLCs AND CORPORATIONS (Required for all applications submitted on behalf of an organization. If applicable, signature required below.)

*First Name _____ Middle Initial _____ *Last Name _____

*Physical Street Address _____

*City _____ *State _____ *ZIP _____

*Social Security # _____ *Date of Birth ____/____/____ Are you a U.S. citizen? ☐ Yes ☐ No

CO-APPLICANT/SPOUSE INFORMATION (Required if spouse or person other than Primary Owner identified above is a co-applicant with interest in the farming operation or assets. If applicable, signature required below.)

*First Name _____ Middle Initial _____ *Last Name _____

*Physical Street Address _____

*City _____ *State _____ *ZIP _____

*Social Security # _____ *Date of Birth ____/____/____ Are you a U.S. citizen? ☐ Yes ☐ No

APPLICANT FINANCIAL INFORMATION (Individual applicants are not required to disclose income derived from alimony, child support, or separate maintenance payments unless the applicant wants John Deere Financial, f.s.b. to consider it in determining creditworthiness.)

Assets \$ _____ Liabilities \$ _____ Total Crop Production Acres _____ Complete all fields for the maximum credit limit.

Annual Gross Sales \$ _____ Net Business Income \$ _____ Years In Business _____

Primary Operating Lender / Financial institution _____ City _____ State _____

Contact Name _____ Phone Number _____

Email Address _____ Fax Number _____

Notice to Applicant or Representatives of Applicant(s): (1) You represent that the information given in the entire application, including all applicant names and any other information provided on any attached page(s) is complete and accurate, is provided for the purpose of obtaining credit in an amount set by the credit policies and practices of John Deere Financial, f.s.b. and, if applicable, Deere & Company ("JDF," "we," "us" and "our"). You authorize us to check with reporting agencies, credit references, and any other sources in investigating the information given, in reviewing or taking collection action on the account, or for other legitimate purposes, and each such source is authorized to provide us with such information. You further authorize us to share all information obtained with our affiliates and other companies which may offer or provide services to you. (2) You grant us permission to obtain a credit report on you for all legitimate purposes including assisting in making a credit decision, reviewing your account and assisting in taking collection activity. (3) Applicant(s) requests a revolving credit account upon our approval of the application. You certify the account will be used for agricultural, commercial or governmental use only. (4) You understand that any decision to grant or deny credit will be made by us in Wisconsin. (5) You agree that any notices and disclosures can, at our option, be provided electronically to the last email address that you provided us. (6) Married applicants can apply for an individual account. (7) You agree that, by providing us any telephone number, including mobile phone number, we, and any third party we retain to provide services to us, can contact you using that number. (8) You consent to the recording and monitoring of your telephone conversations by us and any third parties who provide services to us. (9) You authorize us and our affiliates to send you information on our products and services by internet, facsimile transmissions and other electronic means. (10) You grant all lenders authorization to provide a copy of your financial statements, including but not limited to, your balance sheet, cash flow statement, and income statement to JDF. (11) You also authorize us to disclose financial information about you as described in the credit agreement and future notices we may send you. YOU CERTIFY THAT YOU HAVE READ AND ACKNOWLEDGE RECEIPT OF A TRUE COPY OF THIS AGREEMENT WHICH CONTAINS THE TERMS AND CONDITIONS APPLICABLE TO THE REVOLVING CREDIT ACCOUNT, AND YOU AGREE TO THOSE TERMS AND CONDITIONS.

SIGN HERE X _____ Title _____ Date _____
Applicant's Signature (required)

X _____, Individually Print Name _____ Date _____
Primary Owner Signature Individually – Required for Corporation, LLC & Partnership in addition to the signature on behalf of the Organizational Applicant above (by signing, such Primary Owner shall be personally liable for all transactions and obligations arising under any John Deere Financial account that may be approved by JDF pursuant to this Application).

X _____ Print Name _____ Date _____
Co-Applicant's Signature

FOR MERCHANT USE ONLY:

Merchant Name: **Rupp Seeds, Inc.** Contact Name: **JoAnn Eddings** Phone Number: **419-337-7095**

Merchant Number: **56000152** Customer Account Number: _____ Patron Number: _____

September 2023

For legal entities, continue and complete this page if you intend to fax or mail the application directly to John Deere Financial or if your request is to receive a credit limit over \$50,000*.

For the purposes of this beneficial owner(s) form, a **legal entity** includes a corporation, limited liability company, or other entity that is created by a filing of a public document with a Secretary of State or similar office, a general partnership, and any similar business entity formed in the United States or a foreign country. **Legal entity does not include sole proprietorships, unincorporated associations, or natural persons opening accounts on their own behalf.**

Beneficial Owner Information

a. *Name and Title of Natural Person Opening Account* _____ NAME OF PERSON OPENING _____ TITLE _____

b. *Name and Address of Legal Entity for Which the Account is Being Opened*

LEGAL ENTITY NAME PHYSICAL ADDRESS

CITY ST ZIP+4 BUSINESS PHONE NUMBER

c. *The following information for each individual, if any, who, directly or indirectly, through any contract, arrangement, understanding, relationship or otherwise owns 25 percent or more of the equity interests of the legal entity listed above: (If no individual meets this definition, please write "Not Applicable.")*

1	OWNER NAME #1 _____	PHYSICAL ADDRESS _____	CITY _____	ST _____	ZIP+4 _____
	OWNER #1 DATE OF BIRTH _____	SOCIAL SECURITY # (U.S. PERSONS) _____	OR _____ COUNTRY _____ PASSPORT # AND COUNTRY OF ISSUANCE (NON-U.S. PERSONS) ¹ _____		
2	OWNER NAME #1 _____	PHYSICAL ADDRESS _____	CITY _____	ST _____	ZIP+4 _____
	OWNER #1 DATE OF BIRTH _____	SOCIAL SECURITY # (U.S. PERSONS) _____	OR _____ COUNTRY _____ PASSPORT # AND COUNTRY OF ISSUANCE (NON-U.S. PERSONS) ¹ _____		
3	OWNER NAME #1 _____	PHYSICAL ADDRESS _____	CITY _____	ST _____	ZIP+4 _____
	OWNER #1 DATE OF BIRTH _____	SOCIAL SECURITY # (U.S. PERSONS) _____	OR _____ COUNTRY _____ PASSPORT # AND COUNTRY OF ISSUANCE (NON-U.S. PERSONS) ¹ _____		
4	OWNER NAME #1 _____	PHYSICAL ADDRESS _____	CITY _____	ST _____	ZIP+4 _____
	OWNER #1 DATE OF BIRTH _____	SOCIAL SECURITY # (U.S. PERSONS) _____	OR _____ COUNTRY _____ PASSPORT # AND COUNTRY OF ISSUANCE (NON-U.S. PERSONS) ¹ _____		

d. *The following information for one individual with significant responsibility for managing the legal entity listed above, such as:*

☐ *An executive officer or senior manager (e.g., Chief Executive Officer, Chief Financial Officer, Chief Operating Officer, Managing Member, General Partner, President, Vice President, Treasurer); or*

☐ *Any other individual who regularly performs similar functions. (If appropriate, an individual listed under section "c" above may also be listed in this section "d.")*

NAME/TITLE PHYSICAL ADDRESS CITY ST ZIP+4

DATE OF BIRTH SOCIAL SECURITY # (U.S. PERSONS) OR _____ COUNTRY _____
PASSPORT # AND COUNTRY OF ISSUANCE (NON-U.S. PERSONS)¹ _____

I, _____ (name of natural person opening the Account), hereby certify, to the best of my knowledge, that the information provided above is complete and correct.

Signature: _____ Date: _____ Legal Entity Identifier _____ (Optional)

¹In lieu of a passport number, Non-U.S. Persons may also provide a Social Security Number, an alien identification card number, or number and country of issuance of any other government-issued document evidencing nationality or residence and bearing a photograph or similar safeguard. A service of John Deere Financial, f.s.b.

Please see the back side of this form for complete instructions.

ASK US ABOUT EXCLUSIVE **FINANCE OFFERS** WHEN YOU USE YOUR

MULTI-USE ACCOUNT™

FROM **JOHN DEERE FINANCIAL**

NO ACCOUNT? NO PROBLEM!

Scan the QR code below to begin the application process using our secure mobile-friendly Multi-Use Account application.



Multi-Use Accounts are a service of John Deere Financial, f.s.b.

CR0317033 Litho in U.S.A. (23-01)

MULTI-USE ACCOUNT(TM) AGRICULTURAL/COMMERCIAL OR GOVERNMENTAL USE CREDIT AGREEMENT

TERMINOLOGY. In this Agreement the words *you*, *your*, and *yours* mean each person and/or business entity who applies for and is granted a Multi-Use Account, including any co-applicant identified on the application, as well as any person permitted to use the Account. *JDF means* John Deere Financial, f.s.b., or any subsequent holder of the Account or any balances arising under the Account. When the terms "finance charge" and "interest charge" are used in this agreement and on other documents related to your account, they have the same meaning.

MULTI-USE ACCOUNT. You request a Multi-Use Account from JDF, and further authorize JDF to issue a Multi-Use Account card to each merchant from whom you may make a purchase. By applying for a Preferred Account, or by using a Merchant Authorized Account to make a purchase from a merchant who requests JDF to open one for you, you agree that this Credit Agreement will apply to all purchases made through your Multi-Use Account by you or any person you authorize. You authorize JDF to honor any purchases you make by mail, telephone, Internet, facsimile transmission (fax) or other electronic means on your Account. You agree that a signature is not necessary as identification in such cases. You agree that any authorized use of your Account constitutes your acceptance of all the terms and conditions of this Agreement, as it may be amended from time to time. If you submit your application to JDF by Internet, facsimile transmission (fax) or other electronic means, you agree that the application will have the same effect as a signed original. You agree that you will promptly notify JDF in writing of any suspected loss, theft, or unauthorized use of the Account. You may be liable for the unauthorized use of your Multi-Use Account before you notify JDF in writing at John Deere Financial, P.O. Box 5328, Madison, Wisconsin 53705-0328 of the unauthorized use. In any case, your liability will not exceed \$50. You agree to give JDF prompt notice of any change in your name, mailing address, or place of employment. You agree that until JDF receives notice of your new address, JDF may continue to send statements and other notices to the address you gave JDF on the application for this Account. You agree that, for the purposes of this Agreement, you will be deemed to "reside" in the state of your billing address as shown on JDF's records. You consent and agree that your telephone conversations with JDF may be recorded to further improve JDF's customer service. You agree that JDF and any affiliate and any retained debt collector may place phone calls to you using any telephone number, including a mobile phone number, you have provided to JDF, any affiliate or any retained debt collector, including calls using an automatic dialing and announcing device and prerecorded calls, and that such calls are not "unsolicited" under state or federal law. If more than one person or entity signed the application, each is jointly and severally responsible for all obligations, and amounts due, under this agreement. This agreement is not binding on JDF until JDF has approved your credit and given you notice of approval. If Maryland law applies, Subtitle 9 of Title 12 of the Maryland Commercial Law will apply.

ACCOUNT TYPE. If your Multi-Use Account arose through JDF's purchase of your existing account balance with a merchant, or at the request of one or more merchants, your Account may be classified as a *Merchant Authorized Account*. Certain special features or promotions that JDF may offer from time to time may be made available only to Preferred Accounts. Merchant Authorized Accounts are useable only at a merchant who asked JDF to finance your purchases from them. JDF may, in its sole discretion, classify your account as a Preferred Account. When JDF opens your Account, and on each monthly statement, JDF will indicate whether your Account is either a Preferred or Merchant Authorized Account.

ACCOUNT USE. By applying for or accepting a Multi-Use *Agricultural, Commercial or Governmental Account*, you agree to use your Account *primarily* to make purchases for agricultural, commercial or governmental use, and not for personal, family or household use. You agree to pay JDF all amounts charged by the use of the Account, plus Finance Charges, and the other charges described below, as provided in this Agreement.

You agree that JDF is not responsible for the refusal of anyone to allow a purchase to be made through your Multi-Use Account.

CREDIT LIMITS. JDF will establish and advise you of your credit limit(s) when JDF opens your Account and on each monthly statement. JDF may, in JDF's sole discretion, establish and advise you of a special terms credit limit. JDF may also, in its sole discretion, establish separate additional credit limits with special conditions. The special conditions of any special terms or additional credit limit will be disclosed to you when JDF opens your Account, by a merchant at the time of purchase or on your monthly statement. Your use of any such special terms or additional credit limit(s) shall constitute your agreement to any disclosed special conditions.

You agree that JDF may increase or decrease your credit limit(s) at any time, in JDF's sole discretion, without prior notice to you.

You agree to promptly prepare and provide to JDF any financial and Account information that JDF may, in its sole discretion, request from you.

MONTHLY STATEMENT. JDF will send you a monthly statement whenever there is activity on your Account, unless the only activity is a payment in full. Your monthly statement will show your New Balance, any Finance Charge, any Late Fees, the Minimum Required Payment and the Payment Due Date. In addition, it will show your Credit Limit(s), an itemized list of current Purchases, Payments, and Credits, as well as other information concerning your Account. JDF will send your monthly statements on dates and in intervals determined by JDF. Such statement shall be deemed correct and accepted by you unless JDF is notified to the contrary in writing within 60 days of the date of that statement.

If you think your monthly statement is incorrect, write to JDF on a separate sheet at the address shown on the back of your billing statement. Describe the error as best you can and include your Account number in all correspondence.

PAYMENT. The Payment Due Date is the date the payment must be received at the address shown on the front of your monthly statement. You may at any time pay your entire New Balance or pay more than the Minimum Required Payment, and you may avoid or reduce Finance Charges by doing so. However, payment of more than the Minimum Required Payment, while reducing your balance will not prepay your Account or be

applied against future Minimum Required Payments. If your Payment Due Date falls on a Saturday, Sunday or holiday, the Payment Due Date will not be extended. All payments must be in U.S. dollars and drawn on funds

on deposit in the United States. Payments must be sent to John Deere Financial, at the address designated on your monthly payment stub or to any other payment address JDF later designates on your monthly statement payment stub.

FINANCE CHARGE RATES. Finance Charges on your Multi-Use Account may be calculated using **variable rates** that will be determined by reference to a "**Base Rate**." The **Base Rate** from which your variable rates will be determined is the annual percentage rate of interest announced publicly from time to time by Citibank, N.A., in New York, New York, as the base rate it uses for interest rate determinations, which was in effect at the close of business on the fifteenth (15th) calendar day of each month, or the next succeeding business day if the fifteenth is not a business day ("Reference Day").

Finance Charges on your Account will be calculated by adding a "**Spread**" to the Base Rate to arrive at the current rate. The **Spreads** added to the **Base Rate** to determine the **ANNUAL PERCENTAGE RATES (APRs)** that will apply to your Account will be:

	Preferred	Merchant Authorized
Spreads	11.9%	13.9%

Rate increases and decreases that result from changes in the Base Rate will take effect on the first day of the month, or the next succeeding business day if the first day is not a business day, after the Reference Day on which the Base Rate changes.

Changes in your variable rates will apply to your existing balance as well as to future purchases under your Account. An increase in your rate will increase the total Finance Charge accruing on your Account and the balance on which your Minimum Required Payment is calculated.

Currently effective rates are shown below:

	Daily Periodic Rate(s)		Annual Percentage Rate(s)	
	Preferred Regular Purchases	Merchant Authorized Purchases	Preferred Regular Purchases	Merchant Authorized Purchases
Rate:	0.055890%	0.061370%	20.40%	22.40%

The above rates are correct as of the date of printing, 09/01/2023, but are subject to change after that date.

FINANCE CHARGE CALCULATION. FINANCE CHARGES will accrue on your Account Balance as follows:

JDF will add a FINANCE CHARGE, calculated as shown below, if your New Balance is not paid in full on or before the Payment Due Date. To avoid additional Finance Charges on purchases, you must pay the New Balance in full on or before the Payment Due Date.

The amount of your **FINANCE CHARGES** will be determined as follows:

JDF uses the daily periodic rates and corresponding **APRs** shown in this Agreement. The applicable periodic rate is applied to the "Average Daily Balance" of your purchases, including current transactions, during the current billing cycle.

To get the "Average Daily Balance," JDF takes the beginning balance of your purchases each day, starting with any Previous Balance outstanding on the first day of the monthly billing cycle, adds new purchases and debits, and subtracts payments or credits. This determines the daily balance. Unless JDF elects to use a later date, purchases are added to the daily balance as of the date of purchase.

JDF totals the daily balances for the billing cycle and divides the total by the number of days in the billing cycle. This gives JDF the "Average Daily Balance," which is shown on your monthly statement. Finance Charges may accrue on Special Promotions Transactions at a different rate, as explained in the Special Promotions section of this Agreement.

DEFAULT FINANCE CHARGE RATE. If you are in default, you may no longer qualify for any reduced interest rate Special Promotions and you agree that, at JDF's option, the APR applicable to any outstanding reduced interest rate Special Promotion(s), may be increased to the APR described in this agreement.

A MINIMUM FINANCE CHARGE of One Dollar will be made when the result of the application of the periodic rate(s) to the "Average Daily Balance," is less than One Dollar.

MINIMUM REQUIRED PAYMENT. Except as provided below, you agree to pay each month a combined Minimum Required Payment equal to:

1. Any late payment fee due; **plus**
2. Any additional fees due; **plus**
3. Any amount past due; **plus**
4. For Purchases on your Account:
 - (a) **Either** the greater of: \$25, or 10% of your New Balance (less any Conversion Balance {balances transferred to John Deere Financial from a merchant's accounts receivable} and less any Special Promotions Transaction(s) balances on which no payment is due) if it exceeds \$25;
 - (b) Or your entire New Balance (less any Conversion Balance and Special Promotions Transaction(s) balances on which no payment is due), if it is less than \$25.
5. The amount of any Special Promotions transaction that is due;
6. For Conversion Balances:
 - (a) **Either** the greater of: \$25, or 10% of your Conversion Balance, if that balance exceeds \$25;
 - (b) **Or** your entire Conversion Balance, if it is less than \$25.

DUE-IN-FULL PROVISION FOR GOVERNMENTAL ACCOUNTS. If you are a local, state or federal government agency or department, you agree to pay the entire balance of your account on the date shown on your monthly statement.

SPECIAL PROMOTIONS. For some transactions, special promotional financing terms, such as extended free periods, incentive interest rates on certain purchases or for limited time periods or other promotions may be available, at the discretion of JDF. These special terms will be disclosed by the merchant at the time of purchase. Purchases you make during these special promotions will be separately identified on your monthly statement and will become part of the balance on which your FINANCE CHARGE and Minimum Requirement Payment are calculated at the time provided in the special promotions terms disclosure. These transactions include:

NO-PAYMENTS/NO-INTEREST TRANSACTIONS. Unless otherwise disclosed, minimum monthly payments will be deferred and Finance Charge will not accrue during any disclosed No-Payments/No-Interest period described. Finance Charges will accrue at the APR applicable to your Account after the due date of your No-Payments/No-Interest transaction, unless otherwise disclosed.

SPECIAL TERMS TRANSACTIONS. Unless otherwise disclosed, Finance Charge will accrue from the date of purchase, which may be prior to your receipt of the merchandise, and throughout any special terms period. A special terms transaction may include that no payment on that transaction will be due until the end of the special terms period, which will be disclosed to you. Otherwise, payment will be due as described in this Agreement. Accrued Finance Charge must still be paid by you if the entire special terms balance is paid in full by the end of the special terms period. A reduced special terms finance charge rate may apply to the transaction, which will be disclosed to you. Otherwise, the finance charge rate will be the APR applicable to your Account. The entire balance of the special terms transaction, plus any accrued finance charge, will be due in full by the disclosed due date.

SAME AS CASH TRANSACTIONS. Unless otherwise disclosed, minimum monthly payments will be deferred and Finance Charge will accrue during any Same As Cash period. No Finance Charge will be due until the end of the Same As Cash period and any accrued Finance Charge will be waived if the entire Same As Cash balance is paid in full by the end of this Same As Cash period.

OTHER FEES and CHARGES.

LATE PAYMENT FEES. If within 20 days after the Payment Due Date, JDF has not received payment of at least the current portion of your Minimum Required Payment (Minimum Required Payment plus unpaid late payment fees and past due amounts), JDF will add to your Account a late payment fee of \$39.

RETURNED PAYMENT FEE. If you send JDF a check or electronic payment authorization that is dishonored upon first presentment, JDF will add to your Account a fee of \$35.

COLLECTION COSTS. Upon default, you will pay for expenses incurred in connection with the enforcement of our remedies, without limitation, repossession, repair and collections costs, any attorney's fees plus court costs and related fees including any bankruptcy fees and costs, to the extent permitted by applicable law.

CREDIT BALANCES. Any credit balance in excess of \$5 on your account will be refunded within 30 business days from JDF's receipt of your written request. Otherwise, JDF will refund to you any credit balance remaining on your account after six months. You agree that JDF may retain any credit balance if it is less than \$5 or if JDF does not know your address and it cannot be traced through the last address or telephone number provided to JDF.

ACCEPTING PAYMENT. You agree that JDF can accept late or partial payments, as well as payments marked "paid in full" or with other restrictive endorsements, without losing any of its rights under this Agreement.

DISCLOSURE OF FINANCIAL INFORMATION. You agree that JDF may report your performance under this Agreement to credit reporting agencies and others who request a credit reference from JDF. You agree that JDF may ask credit reporting agencies or others you list as a credit reference for consumer reports or information regarding your credit history at any time for all legitimate purposes, including credit decisions and the review and collection of your account. You authorize JDF to share information regarding your Account with its corporate affiliates and other companies that offer products and services JDF believes may be of interest to you. **JDF's affiliates may use certain consumer report information as a factor in establishing your eligibility for credit. If you object to this, you must notify JDF by calling John Deere Financial Customer Service at 1-800-356-9033, and providing your name, Social Security number, address and account number; and, after a reasonable processing time of up to 30 days, certain information will not be provided to those affiliates.**

CLOSING YOUR ACCOUNT. You may close your Account at any time by notifying JDF in writing. You agree that JDF may close or suspend your Account to future purchases at any time without prior notice. You agree that JDF may close or suspend your Account to future purchases if your Account has no activity for 12 or more months. You agree that, regardless of the closing or suspension of your Account, you remain responsible for paying the amount you owe JDF according to the terms of this Agreement.

SECURITY INTEREST. You grant JDF a purchase money security interest in all merchandise purchased through your Account, and its proceeds, including insurance proceeds, but this provision does not apply if you reside in NC and the APR on a purchase or transaction exceeds 15%. JDF's security interest continues until such merchandise is paid for in full by application of your payments in the manner described in this Agreement.

PAYMENT APPLICATION. You agree that your payments will be applied as JDF determines in its sole discretion. You agree that JDF has this discretion and that JDF may exercise it to suit its own convenience and interests, without further notice to you. You also agree that JDF may change how it applies payments at any time without notice to you. You acknowledge that the exercise of this

discretion by JDF may result in cases in which the application of your payments to the Account creates higher Finance Charges than other payment application methods and that this may include payments allocated to balances with lower APRs before balances with higher APRs and/or to balances with longer promotional periods before balances with shorter or no promotional periods.

You agree that your payments will be credited as of the date of receipt at the address on the payment stub of your Monthly Statement if received by 11:00 a.m. Central Time Monday through Friday (otherwise next business day); but if payment is not accompanied by the payment stub, is not sent in the envelope we provided, includes other items, such as other checks, staples or paper clips, or is not received at that location, credit may be delayed up to five days.

MERCHANT CHARGEBACKS. JDF may charge back to a merchant who sold goods or services to you on your Account, any part of your Account balance related to those purchases. In that event, this Agreement will be deemed assigned to the merchant to the extent of the chargeback. You agree to such an assignment and further agree to pay the merchant the amount of such chargeback in accordance with the terms of this Agreement.

DEFAULT. You agree that you will be in default if: (a) you fail to pay the Minimum Required Payment within 20 days after the Payment Due Date; (b) the value of JDF's security interest in any collateral is materially impaired; (c) your ability to repay is materially reduced by your exceeding your credit limit, by a change in your employment, by a change in your other obligations, by bankruptcy or insolvency proceedings involving you, or (for community property state residents only) by a change in your marital status or domicile; (d) you die or become incompetent; (e) you have provided JDF false or misleading information relating to your credit application or Account; (f) you fail to perform any other of your obligations under the terms of this Agreement as it may be amended; or (g) you are in default under any other agreement you have with JDF or any of its affiliates.

You agree that, upon your default, JDF may close your Account to future purchases and that JDF may demand immediate payment of your entire Account balance, after giving you any notice and opportunity to cure the default required by applicable law. In addition, you agree that JDF shall have all the rights of a secured creditor under the Uniform Commercial Code and other applicable law.

DELAY IN ENFORCEMENT. You agree that JDF can delay enforcing its rights under this Agreement without losing them.

ELECTRONIC DISCLOSURE. You agree that any notices and disclosures related to your account can be delivered to you in printed form or by electronic means if you provided an electronic mail address to JDF when you applied for this Account or at a later date. Until JDF receives notice of a new electronic mail address, JDF may continue to send such notices and disclosures to the electronic mail address you most recently provided to JDF.

GOVERNING LAW. This Agreement must be approved, and all charges and payments to your Account processed by JDF at its office in Madison, Wisconsin. Therefore, this Agreement and your account will be governed by the substantive law of the United States and to the extent state law applies to this Agreement the substantive law of the State of Wisconsin; regardless of whether or not you reside in Wisconsin. The law of your state of residence will apply to JDF's recovery of any collateral located there.

This is the entire Agreement between you and JDF relating to your Multi-Use Account and no oral changes can be made.

Invalidity of any provision of this Agreement shall not affect the validity and enforceability of the remainder of its terms.

CHANGING THIS AGREEMENT. IMPORTANT: READ BEFORE SIGNING. THE TERMS OF THIS AGREEMENT SHOULD BE READ CAREFULLY BECAUSE ONLY THOSE TERMS IN WRITING ARE ENFORCEABLE. NO OTHER TERMS OR ORAL PROMISES NOT CONTAINED IN THIS WRITTEN CONTRACT MAY BE LEGALLY ENFORCED. YOU MAY CHANGE THE TERMS OF THIS AGREEMENT ONLY BY ANOTHER WRITTEN AGREEMENT. You agree that JDF may change this Agreement, including the Finance Charge Calculation and the APR, at any time, by providing prior notice to you. To the extent that the law permits and JDF indicates in the notice, the changes will apply to your existing Account balance as well as to future transactions.

IMPORTANT INFORMATION ABOUT PROCEDURES FOR OPENING A NEW ACCOUNT. To help the government fight the funding of terrorism and money laundering activities, Federal law requires all financial institutions to obtain, verify, and record information that identifies each person who opens an account. What this means for you: When you open an account, you will be asked for your name, address, date of birth, and other information that will allow JDF to identify you. You may also be asked to show your driver's license or other identifying documents.

Your choice to limit marketing.

- John Deere Financial, f.s.b. ("JDF"), and its credit affiliates are providing this notice. They include Deere & Company, Deere Credit, Inc., and John Deere Construction & Forestry Company.
- You may limit the JDF affiliate Deere companies, such as the manufacturing, credit, leasing and insurance affiliates, from marketing their products or services to you based on your personal information that they receive from JDF. This information may include your income, account history, and credit score.
- Your choice to limit marketing offers from the JDF affiliate Deere companies will apply for at least 5 years from when you tell us your choice. Once that period expires, you will receive a renewal notice that will allow you to continue to limit marketing offers from JDF affiliate Deere companies for at least another 5 years.
- To limit marketing offers, contact us (1-800-356-9033).

COMPLETING AND SUBMITTING YOUR APPLICATION

To ensure that John Deere Financial receives all of the information necessary to process your application, please follow the guidelines below:

All agricultural customers will be reviewed for up to \$250,000 in unsecured credit when they submit an application.

Qualifying customers will be assigned both a Regular and Special Terms credit limit to take full advantage of all the benefits of their Multi-Use Account™.

A Special Terms limit is typically used for larger seasonal crop input purchases with deferred payments, often until after harvest.

The total credit limit consists of a Regular and Special Terms credit limit; the Regular credit limit is required to be a minimum of \$100.00.

For Legal Entities, the Beneficial Owner Form page of this application is required if you intend to fax or email the application directly to John Deere Financial or if your request is to receive a credit limit over \$50,000. Complete and provide to John Deere Financial within 7 days.

Informational Requirements for Credit Limits >\$250,000

ACTION REQUIRED – WHAT COMBINED CREDIT LIMIT (REGULAR + SPECIAL TERMS) IS REQUESTED?

Up to \$250,000 ¹	\$250,001 - \$500,000 ²	Over \$500,000 ¹	Over \$2,000,000 ¹
Complete Page 1 of the application. Complete all fields for the maximum credit limit.	Complete Page 1 of the application and attach the most recent year lender-prepared balance sheet with supporting schedules and the most recent year income statement (or equivalent such as a schedule F). If applicable, include the same information for co-applicant, including spouse.	Complete Page 1 of the application and include the two most recent years' lender-prepared balance sheets with supporting schedules and the two most recent years income statements (or equivalent such as a schedule F). If applicable, include the same information for co-applicant, including spouse.	Complete Page 1 of the application and include the two most recent years' accountant reviewed or audited financial statements. If applicable, include the same information for co-applicant, including spouse.

If applicable, include the same information for co-applicant, including spouse. If a Partnership, Corporation or LLC, include for both the entity and the general partners, president, owner or managing member(s).

¹The Special Terms credit limit is not available on consumer, commercial or governmental accounts. Credit limits are subject to John Deere Financial credit approval and can be changed at any time without prior notice to the customer or the merchant.

²John Deere Financial reserves the right to request additional information if needed.

BENEFICIAL OWNER INFORMATION OF LEGAL ENTITIES – INSTRUCTIONS FOR CREDIT LIMIT REQUESTS > \$50,000

What is this form? To help the government fight financial crime, federal regulation requires certain financial institutions to obtain, verify, and record information about the beneficial owners of legal entity customers. Legal entities can be abused to disguise involvement in terrorist financing, money laundering, tax evasion, corruption, fraud, and other financial crimes. Requiring the disclosure of key individuals who own or control a legal entity (i.e., the beneficial owners) helps law enforcement investigate and prosecute these crimes.

Who has to complete this form? This form must be completed by the person opening a new account on behalf of a legal entity. For the purposes of this form, a **legal entity** includes a corporation, limited liability company, or other entity that is created by a filing of a public document with a Secretary of State or similar office, a general partnership, and any similar business entity formed in the United States or a foreign country. **Legal entity does not include sole proprietorships, unincorporated associations, or natural persons opening accounts on their own behalf.**

What information do I have to provide? This form requires you to provide the name, address, date of birth and Social Security number (or passport number or other similar information, in the case of Non-U.S. Persons) for the following individuals (i.e., the **beneficial owners**):

1. Each individual, if any, who owns, directly or indirectly, 25 percent or more of the equity interests of the legal entity customer (e.g., each natural person that owns 25 percent or more of the shares of a corporation), to be listed in section (c) of the form; **and**
2. An individual with significant responsibility for managing the legal entity customer (e.g., a Chief Executive Officer, Chief Financial Officer, Chief Operating Officer, Managing Member, General Partner, President, Vice President, or Treasurer), to be listed in section (d) of the form.

Under section (c) on the form, you will list anywhere from zero individuals (every owner has less than a 25 percent equity interest in the legal entity) to four individuals (four people with equal 25 percent equity interests in the legal entity), depending on the factual circumstances. Regardless of the number of individuals identified under section (c), you must also provide the identifying information of one individual under section (d) on the form. The individual identified in section (d) can also be listed in section (c), if applicable.





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