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Dear Grower,

I was glad to hear throughout the season that our grower customers were doing well. Growing conditions were favorable which made it possible to produce a good crop. Consumer demand remained strong, and with fairly stable prices, I trust that many of you had a profitable outcome.

Thank you for doing your part in helping to feed the world!

And thank you for your business and the trust you place in us.

It's obvious to all of us that costs of living have been going up, and naturally costs of producing a crop are too. I can assure you that we're doing all we can to provide you with the seed varieties you need to meet your market opportunities and consumer needs. We're offering them with seed treatments that help you establish the plant stand needed for a successful crop. And we're offering these products in a range of package sizes, so you only have to buy the amount of seed you need.

As you may expect, many seed prices are also up this year. Please know that we're looking for great products at various price points to give you options among comparable varieties, so that we can help you manage your costs of production.

This coming season, I encourage you to take advantage of our payment discount program or use our post-harvest financing programs to keep your cash flow options open through the season. Details on both of these programs are provided in the pages ahead.

As of this spring, our business is now entirely focused on serving vegetable growers. Please let us know how we can serve you better as we partner together to help feed the world.

We are thankful for the opportunity we have to serve so many wonderful people, and on behalf of our team and family, thank you for your business.

Sincerely,

Philip Rup President

Welcome!

We welcome the opportunity to be a part of your success. Our sales and service team is ready to assist you in planning for this coming season. Feel free to contact the salesman in your area if you need their assistance. If you live in an area without a salesman, please contact the office and a representative will be happy to assist you.

REGIONAL CONSULTANTS



Barry Rupp Indiana, Michigan 866.681.Seed 888.359.3461 FAX barryr@ruppseeds.com



Brad Paulson Illinois, Iowa, Minnesota, Wisconsin 866.591.Seed 888.360.2578 FAX bradp@ruppseeds.com



Dave Silveus Kentucky, Ohio, Tennessee 866.614.Seed 888.398.1261FAX daves@ruppseeds.com



Jeff Hess Delaware, Maryland, New Jersey, Pennsylvania 866.956.Seed 888.875.9982 FAX jeffh@ruppseeds.com



Jeff Werner New England, New York 866.240.Seed 888.356.8299 FAX jeffw@ruppseeds.com



George Wonnacott Ontario, Canada 866.619.Seed 519-286-9438 FAX georgew@ruppseeds.com

SALES REPRESENTATIVES



Kristen, x7098



Marie, x9011



Pete, x9003



Sarah, x7091

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 2023 on orders placed before December 31, 2022. 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!

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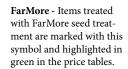
ICON KEY

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.



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 other similar varieties in this product category should consider giving this 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.

Gynoecious - (cucumbers) Plant with only female flowers.

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

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

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

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

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

Hybrid (F1) - Hybrid seed is produced from the cross between two genetically pure varieties, typically from the same species. Hybrids are common in agriculture, especially for

crops that benefit from heterosis, such as corn and rice. Hybrids are created as a means to combine the positive and valuable characteristics of the parent varieties into a new hybrid variety. Seed production of a hybrid occurs by controlling the pollination between its parents, such as hand pollination in cucurbits or de-tasseling in corn.

Indeterminate - Plant habit where vine continues to grow.

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

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

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

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

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

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

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

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

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

Pithy - Fibrous, course texture.

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

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

Sieve - Diameter of green bean pod.

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

Transgenic - Genetically modified.

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

FREQUENTLY ASKED QUESTIONS

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

Yes, we offer cash discounts on all seed orders over \$350.00. The cash discount is for orders paid for via check. You may prepay your seed order at anytime and we will add that month's discount to your credit on account. The August discount is 10% and goes down a percentage each month through April. See page 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 2023. 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 169.

You offer more high quality varieties than most seed dealers. How do you decide which varieties to offer? And where do they all come from?

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?

Our current vendor list is over 40 companies and includes:

American Takii, A.P. Whaley, Awald, Ball Horticulture Co, BHN, Bisek Gardens, Condor, Crookham, Croplan, De Ruiter, DP Seeds, Enza Zaden, Ernst Benary of America, Harris Moran, Harris Seeds, Hollar, Hybrid Seed Company, Illinois Foundation Seeds, Jersey Asparagus, Johnny's, Kimberly, Lark, PanAmerican Seed, Pure Line, Rispens, Rupp, Sakata, Schlessman, Seed Savers Exchange, Seeds By Design, SeedSense, Seedway, Seminis, Seneca Vegetable Research, SPS Idaho, Stokes, Sugar Hill, Syngenta, The Wax Company, Tozer, Treasure Valley Seed, US Agriseeds, US Seedless, Vilmorin, and Wild West.

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 152 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.

Pricing table example. "U" indicates untreated seed.

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

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

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

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

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

Of the roughly 107 varieties of sweet corn, 21 are GMO: the Performance Series, Attribute, Attribute Plus, and Attribute II varieties listed on pages 30 - 32.

And of the 38 varieties of summer squash, two are GMO: Destiny III and XPT 1832 III, on pages 115 - 117

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

ASPARAGUS	M=1,000 see				
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			5.95	12.50	36.50



BEANS

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.

RUPP USE GUIDELINES

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

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

DISEASE CODES

A - Anthracnose

BBS - Bacterial Brown Spot

BV - Common Bean Mosaic Virus

CTV - Curly Top Virus

HB - Halo Blight

N# - Bean Mosaic Virus race number

NLB - Northern Leaf Blight

PM - Powdery Mildew

R - Rust

WM - White Mold

COLOR CODES

BY - Bright Yellow

DG - Dark Green DY - Dark Yellow

GR - Green Red

LG - Light Green

MDG - Medium Dark Green

MG - Medium Green

MLG - Medium Light Green

P - Purple

VDG - Very Dark Green

Y - Yellow

BEAN SIEVE SIZE

1 sieve - 7/32"

2 sieve - 5/16"

3 sieve - 11/32"

4 sieve - 3/8"

5 sieve - 7/16"



WALKER DELUXE



syngenta*

BA0999 BRONCO





DESPERADO



JADE II



LYNX



OUTLAW

ORDERS OVER \$350 ARE SHIPPED FREE!

Seminis

SYBARIS



VALENTINO



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ASPARAC	GUS	
		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.

ASPARAGUS				M=1,0	00 seeds
Priced per package	100 Seeds	500 Seeds			
Price per 1,000 seeds (M)			1M	5M	15M
13007U Walker Deluxe untreated	13.70	57.05	99.20	86.25	75.00
Priced per package			1 oz.	4 oz.	1#
13001 Mary Washington			5.95	12.50	36.50

BEANS		BUSH	GREEN	Fresh I	Market			Pricing on page 8
	•	Days	Pod Length	Pod Color	Seed Color	Use	Disease	Features
07147	BA0999 🕡	50	5 ½"	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. This bean will work really well as a rain gap filler.
07043	Bronco 💜	58	5 1/2"	DG	White	FM, S	BV ¹	High yielding. For market or shipping.
07033	Desperado 🔷	53	5 ½"	DG	White	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.
77155	Jade II Ò	60	6 1/2"	DG	White	FM, S	BV, CTV, R	Improvement to Jade - darker beans and better seed quality. Long, straight pods which grow in a less concentrated set.
07124	Lynx Ѡ	55	6"	DG	White	S	BV, HB, R	A high quality shipper with straight, dark pods.
07005	Momentum 🔷	56	5 ¾"	DG	White	FM, S	BV	An upright bush style variety. Produces a concentrated set of straight pods with outstanding yields and is widely adapted to most growing regions.
07024	Outlaw 📦	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. Use as a Prevail replacement.
07148	Sybaris Ò	55	5 ½"	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 ½"	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.













BESWEET 292

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B	





















ABOT .	JADE



SV1003GF

BEA	NS		BUSH (GREEN	Heritag	e Varietie	s - Home Ga	arden
		•	Days	Pod Length	Pod Color	Seed Color	Disease	Features
	07007	Blue Lake 274	52	6"	DG	White	BV ¹	Popular garden variety.
	07015	Cabot 🔌	55	5 - 6"	DG	White	BV, CTV, HB, R	Exceptionally smooth pod with desired dark green coloration. Very good disease tolerance.
	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	CROP FAILURE 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		CROP FAILURE Canning or freezing type.

BEA	NS BUSH GREEN	ge 7	M=1,000 seeds			
	Price per 1,000 seeds (M)	2M	10M	20M	80M	800M*
07147	BA0999 Cruiser		4.40	4.15	3.95	3.70
07043	Bronco Cruiser	4.80	3.80	3.55	3.35	3.10
07033	Desperado ^{Cruiser}	5.15	4.15	3.90	3.70	3.45
07155	Jade II ^{Cruiser}		3.95	3.70	3.50	3.25
07124	Lynx ^{Cruiser}		4.10	3.85	3.65	3.40
07005	Momentum Cruiser	5.25	4.25	4.00	3.80	3.55
07024	Outlaw ^{Cruiser}	5.10	4.10	3.85	3.65	3.40
07148	Sybaris ^{Cruiser}	5.25	4.25	4.00	3.80	3.55
07056	Tema ^{Cruiser}	5.30	4.30	4.05	3.85	3.60
07130	Valentino ^{Cruiser}		3.95	3.70	3.50	3.25
	* Multiple packages may be used	to fill orders fo	r these qua	ntities.		

BEANS BUSH GREEN FLAT

	Priced per pound in these package sizes	1#	5#	25#	50#
07057 Greencrop		5.65	4.65	4.35	4.15
07017U Roma II Untreated		5.30	4.30	4.00	3.80

			M=1,0	000 seeds
1#	5#	25#	50#	500#
5.55	4.55	4.30	4.15	4.00
Crop	Failure			
2M	10M	20M	80M	800M*
5.35	4.35	4.10	3.90	3.65
5.40	4.40	4.15	3.95	3.70
o fill orders fo	or these quai	ntities.		
	5.55 Crop 2M 5.35 5.40	5.55 4.55 Crop Failure 2M 10M 5.35 4.35 5.40 4.40	5.55 4.55 4.30 Crop Failure 2M 10M 20M 5.35 4.35 4.10	1# 5# 25# 50# 5.55 4.55 4.30 4.15 Crop Failure 2M 10M 20M 80M 5.35 4.35 4.10 3.90 5.40 4.40 4.15 3.95

BEANS	BUSH	GREEN	Heritage
			ricitage

	9-				
Priced per pound in these package sizes	1#	5#	25#	50#*	500#*
07007U Blue Lake 274 Untreated	5.60	4.60	4.35	4.20	4.05
07012U Contender Untreated	5.55	4.55	4.30	4.15	4.00
07135 Jade	7.65	6.65	6.40	6.25	6.10
07016U Provider Untreated	5.55	4.55	4.30	4.15	4.00
07048U Royal Burgundy Untreated	5.60	4.60	4.35	4.20	4.05
07026U Strike Untreated	5.55	4.55	4.30	4.15	4.00
07028U Tenderette	Crop F	ailure			
07021U Tendergreen Improved Untreated	5.55	4.55	4.30	4.15	4.00
07022U Top Crop	Crop F	ailure			
Price per 1,000 seeds (M)	2M	10M	20M	80M	800M*
07015 Cabot ^{Cruiser}	5.85	4.85	4.60	4.40	4.15

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

BEANS DRY SHELLING			M=1,0	000 seeds
Price per 1,000 seeds (M)	2M	10M	20M	40M
09032U Cabernet Red Kidney Untreated	5.35	4.35	4.10	3.90
09031U Etna Cranberry Untreated	9.75	8.75	8.50	8.30
09033U SV1893GH Navy Untreated	4.50	3.50	3.25	3.05
09034U SV6139GR Pinto Untreated	4.75	3.75	3.50	3.30
Priced per pound in these package sizes	1#	5#	25#	50#
09005U Pinto Untreated	4.40	3.40	3.15	3.00

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DEAINS	ЕГЛБІТ	- SUI

Priced per pound in these package sizes	1#	5#	25#	50#
09025U BeSweet 292 Untreated	10.50	9.50	9.25	9.00

BEANS	BUSH GREEN FLAT							
	_	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 Vari	ety							
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	YELLO	OW WA	X					
	*	Days	Pod Length	Pod Shape	Pod Color	Seed Color	Disease	Features
Fresh Market								
08019	Sunburst 🕏	50	6"	Round	ВУ	White	BV, HB	A Seminis variety for local market or shipping. Long straight pods that are an attractive bright yellow. Concentrated set.
08005	SV1003GF 🔌	56	5 1/4"	Round	Υ	White	BBS, BV	Has better color and a slightly longer pod than Gold Dust with a more upright plant. Consistent yielder.
Heritage Vari	eties							
08004	Cherokee	51	6"	Round	DY	Buff		A proven home garden variety.
08002	Golden Improved	50	5"	Round	Υ	White		CROP FAILURE The most popular bush wax variety for home gardens.

BEANS		DRY	DRY SHELLING								
•		Days	Days Seed Color Bean Type Plant Type Disea		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		EDIBLE	SOY			
	•	Days	Height	Bean Size	Seed Color	Features
	Vegetable soybeans (edar and sweet if picked and p than either peas or limas	reserved in	the prope	r stage. Used p	primarily as a	own for table use. They produce very large beans that are high in protein shelled green bean with eating quality superior to limas and higher protein

BeSweet 292 6 85 24" 1200/lb. Yellow The top commercial check variety for vegetable soybeans produced under license from AVRDC in Taiwan.

GROWER PREFERRED ALL-STARS

Items marked with a gold star are "Grower Preferred All-Stars". Growers throughout the Midwest and North East have been successful with these varieties. If you're looking to get started with a new crop or make a change in the varieties you are using, you can trust that Grower Preferred products will do the job.

BEANS BUSH GREEN

09025

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 straight 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

BEANS

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!

Dave Silveus Vegetable Consultant Λ

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BORSALINO

POST HARVEST FINANCING AVAILABLE

We offer a variety of financing options including 0% interest with no payments due until December 2023. The best rates are available before 12/31/2022.

See page 155 for all of the details on how to take advantage of this payment option.





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BEANS		FRENC	H FILE	T				
	•	Days	Pod Length	Diameter	Pod Color	Seed Color	Disease	Features
08018	Borsalino Baby Wax	60	4"	1/4"	Υ	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		GREE	N RUNI	IER				
	•	Days	Pod Length	Pod Shape	Pod Color	Seed Color	Disease	Features
07020	State Half Runner	60	4"	Oval	LG	White		CROP FAILURE 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 commer- cial favorite.
07023	White Half Runner	60	4 1/2"	Oval	LG	White		Similar to Mountaineer Half Runner.

BEANS		HORTIC	CULTUI	RAL Herit	tage Vari	eties		
	*	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 FRENCH FILET			M=1,	000 seeds
Price per 1,000 seeds (M)	2M	10M	20M	100M
08018 Borsalino	6.05	5.30	5.05	4.80
07089 Maxibel	8.65	7.90	7.65	7.40

BEANS HORTICULTURAL				
Priced per pound in these package sizes	1#	5#	25#	50#
07039U Dwarf Horticultural Taylor Untreated	5.90	4.90	4.60	4.40
07031U French Horticultural Untreated	7.00	6.00	5.70	5.50

BEANS	GREEN RUNNER				
	Priced per pound in these package sizes	1#	5#	25#	50#
07020U Stat	te Half Runner Untreated	Cro	p Failure		
07118 Vol	unteer Half Runner	5.75	4.75	4.45	4.25
07023U Wh	ite Half Runner Untreated	5.75	4.75	4.45	4.25







SAVE WITH CASH DISCOUNTS

Cash discounts are available throughout the season and are a great way to add money to your bottom line.

See page 154 for all of the details.

 November
 .7%

 December
 .6%

 January
 .5%

 February
 .4%

 March
 .3%

 April
 .2%

ORIENT WONDER

SEYCHELLES

BEANS		POLE	Heritage \	Varieties			
	•	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		BUS	H LIMA	\ Heritage	Varieties	
	*	Days	Height	Seeds per Pod	Seed Color / Shape	Features
11006	Dixie Speckled Butterpea	75	16 - 24"	3 - 4	Red Speckled / baby lima	Similar to White Dixie, a southern favorite. Very limited supply - call for availability.
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. Very limited supply - call for availability.
11004	Thorogreen Bush	65	15 - 16"	3 - 4	Light Green / small and flat	Home garden and processing. Very limited supply - call for availability.

BEANS		POLE LIMA Heritage Varieties				
	*	Days	Height	Seeds per Pod	Seed Color / Shape	Features
11501	King of the Garden	88	8 - 10'	4	Creamy White	CROP FAILURE Largest of all lima beans.

BEANS BUSH LIMA

BEANS POLE					
	Priced per pound in these package sizes	1#	5#	25#	50#
10002U Blue Lake Pole	Untreated	7.25	6.25	5.95	5.75
10001U Kentucky Wor	nder Untreated	7.25	6.25	5.95	5.75
10004U Orient Wonde	Yard Long Untreated	40.50	39.50	39.20	39.00
10005U Seychelles Untrea	ted	9.75	8.75	8.45	8.25
	Price per 1,000 seeds (M)	2M	10M	20M	80M
10008 Kentucky Blue	!	6.90	5.90	5.65	5.45

Priced per pound in these package sizes	1#	5#	25#	50#
11006U Dixie Speckled Butterpea Untreated	Crop	Failure		
11002U Fordhook 242 Untreated	6.80	5.80	5.50	5.30
11003U Henderson Bush Untreated	6.60	5.60	5.30	5.10
11004U Thorogreen Bush Untreated	6.60	5.60	5.30	5.10

BEANS POLE LIMA				
Priced per pound in these package sizes	1#	5#	25#	50#
11501U King of the Garden Untreated	Crop l	ailure		



















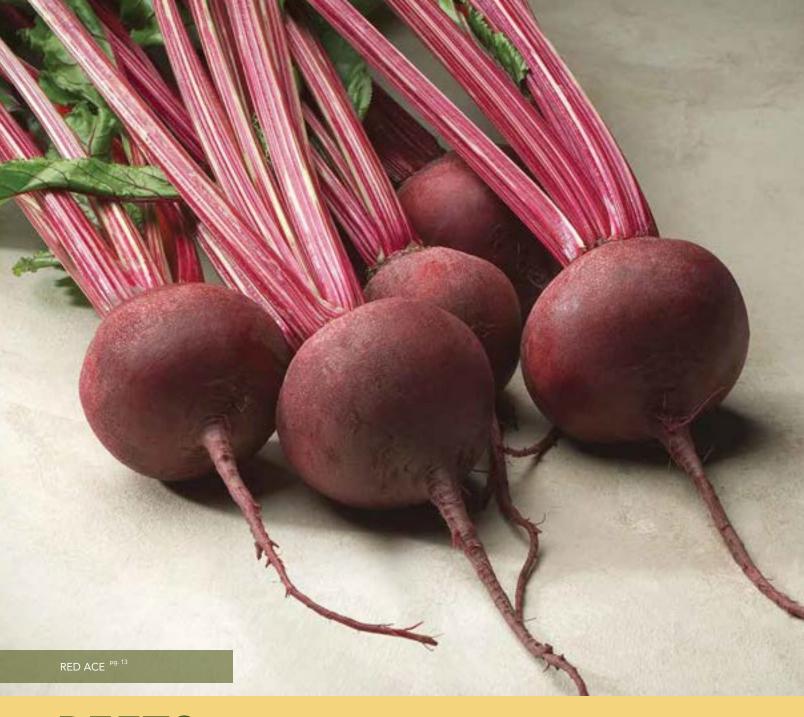












BEETS

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.



14103 Ruby Queen



GUARDSMARK



5 - 7%

60



TOUCHSTONE GOLD



Enhance root growth and increase seedling vigor for healthier plants and higher yields with Naturall™ for Vegetables.

See page 150 for rates and pricing.

BEETS				
Fresh Market	*	Days	Sugar	Features
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.
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 FI 🔷 🐔	53	12 - 15%	Early, sweet, red and resists zoning in hot weather. Excellent for garden, market 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 Varie	eties			
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 $1~\%"$ 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.

BEETS			M=1,	000 seeds
Price per 1,000 seeds (M)	5M	25M	250M	1,000M
14003 Camaro	1.34	1.25	1.19	1.15
14105 Chioggia Guardsmark F300	1.60	1.51	1.45	1.41
14011 Merlin F300	1.22	1.13	1.07	1.03
14002 Red Ace F300	1.22	1.13	1.07	1.03
14106 Touchstone Gold F300	2.74	2.65	2.59	2.55
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 Untreated	3.35	11.50	30.60	29.60	28.60
14112U Chioggia Untreated	3.15	10.90	29.00	28.00	27.00
14104U Cylindra Untreated		4.25	11.25	11.00	10.75
14101U Detroit Dark Red Untreated		4.25	11.25	11.00	10.75
14102U Early Wonder Untreated		4.25	11.25	11.00	10.75
14107U Lutz Green Leaf Untreated		7.15	19.00	18.75	18.50
14103U Ruby Queen Untreated		4.25	11.25	11.00	10.75

An early, excellent quality beet for the gardener. Tender, fine grained and sweet.

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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 sidedress 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













EASTERN CROWN

GREEN MAGIC HANCOCK

IMPERIAL MILLENNIUM

SORRENTO

BRC	CCO	Ц						
Erroch	Market	•	Days from Transplant***	Sowing Season	Head Size	Bead Size	Disease Code	Features
rresn	15009	Eastern Crown F1	74	Spring Summer	Medium	Small		Eastern Crown 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 (Asian cut). Performs 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.
*	15044	Green Magic ^{F1}	75	Spring	Medium	Medium Small	DM	This summer type broccoli offers very good uniformity and hold- ing 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		A Seminis variety with raised heads for easier picking ability. Thin-stalked variety used for either crown cut or bunching use. Very good heat tolerance.
\star	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. A perfect variety for fresh market or home gardeners.
Herita	ige Varie							
	15502	Waltham 29	95	Spring	Medium			Good main heads with a heavy crop of side shoots.

BROCCOLI				M=1,0	000 seeds
Price per 1,000 seeds (M)	1M	5M	25M	100M	500M*
15009 Eastern Crown	10.60	10.00	9.65	9.25	9.05
15051 Emerald Crown	9.70	9.10	8.75	8.35	8.15
15044 Green Magic	8.50	7.90	7.55	7.15	6.95
15001 Hancock	8.75	8.15	7.80	7.40	7.20
15049 Imperial	9.10	8.50	8.15	7.75	7.55
15004 Millennium	10.10	9.50	9.15	8.75	8.55
Priced per package	1 oz.	4 oz.			
Priced per pound in these package sizes			1#		
15509 Sorrento Broccoli Raab	11.45	18.30	55.00		
15502 Waltham 29	4.65	7.40	22.25		
* Multiple packages may be used	to fill orders	for these qua	antities.		

BROCCOLI

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

Green Magic is a great variety for early spring sowing.

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



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^{*} 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.



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.









SAVE WITH CASH DISCOUNTS

Cash discounts are available throughout the season and are a great way to add money to your bottom line.

See page 154 for all of the details.

 November
 .7%

 December
 .6%

 January
 .5%

 February
 .4%

 March
 .3%

 April
 .2%

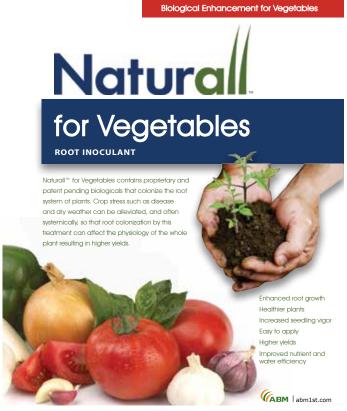
CAPITOLA

CHURCHILL

RED BALL

BRUSSELS	S SPROUTS				
	•		Days Sprout Size		Features
Fresh Market					
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 1/4"	30"	A first early variety, maturing late August to October. Produces good yields of tight, evenly spaced buttons with superb flavor.
16002	Jade Cross Regular F1	85	3/4 - 1"	28"	Popular early maturing variety. Deep green sprouts are spaced closely on medium sized plants. High yield of firm, oval-shaped, medium sized sprouts. Holds well in adverse weather.
16502	Red Ball	100	1"	38"	Specialty variety producing red sprouts which improve in color after cold weather. Best red variety available.
Heritage Vari	eties		·		
16501	Long Island Improved	90	3/4 - 1"	24"	Popular home garden variety. Medium green sprouts.

BRUSSELS SPROUTS			M=1,	000 seeds
Priced per package		1 oz.	4 oz.	1#
16501 Long Island Improved		3.65	7.30	21.95
Price per 1,000 seeds (M)	1M	5M	25M	100M
16006 Capitola	26.05	25.40	25.10	24.65
16007 Churchill	14.30	13.65	13.35	12.90
16002 Jade Cross Regular	9.60	8.95	8.65	8.20
16502 Red Ball	5.70	5.05	4.75	4.30



For details and pricing on Naturall, see page 150.

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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

ALT - Alternaria Leaf Spot

BR - Black Rot

BS - Black Spec

CR - Crown Rot

DM - Downy Mildew

T - Thrips

TB - Tip Burn

YR - Yellows Resistant













FAST VANTAGE

BLUE DYNASTY

XTREME VANTAGE

GRAND VANTAGE

CABBAGI	3	HYBRID					
		Days from Transplant*	Head Weight pounds	Head Type	Color	Disease Code	Features
17069	Fast Vantage	50	2 1/2	Round	Medium Green		A very uniform hybrid that is slightly earlier than Headstart for the early cool season.
17005	Stonehead	60	3 - 4	Round	Gray Green	ТВ	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.
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 from Seminis.
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", heavy weight, dense solid interior and short core. Tight wrapper leaves. Good holding ability and excellent yield.
17009	Stellar Vantage	85	5	Round	Blue Green	BR, YR¹	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

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

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

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.





CABBAGE Hybrid				M=1,0	000 seeds
Price per 1,000 seeds (M)	1M	5M	25M	100M	500M*
17091 Blue Dynasty	7.05	6.45	5.85	5.25	5.15
17022 Blue Vantage	6.10	5.50	4.90	4.30	4.20
17021 Charmant	7.05	6.45	5.85	5.25	5.15
17048 Cheers	6.95	6.35	5.75	5.15	5.05
17085 Emblem	6.30	5.70	5.10	4.50	4.40
17069 Fast Vantage	7.10	6.50	5.90	5.30	5.20
17116 Grand Vantage	8.50	7.90	7.30	6.70	6.60
17097 Platinum Dynasty	7.15	6.55	5.95	5.35	5.25
17008 Primo Vantage	7.55	6.95	6.35	5.75	5.65
17009 Stellar Vantage	6.65	6.05	5.45	4.85	4.75
17005 Stonehead	6.50	5.90	5.30	4.70	4.60
17011 Xtreme Vantage	6.00	5.40	4.80	4.20	4.10
* Multiple packages may be used to	o fill orders fo	or these quai	ntities.		







RUBY PERFECTION



TOY CHOY



See page 154 for more details.

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CABBAGE		SPECIA	L TY Hyl	orid			
		Days from Transplant*	Head Weight pounds	Head Type	Color	Disease Code	Features
17090	Red Dynasty	72	3 ½ - 5	Flat Round	Red	BR, TB	A Seminis red cabbage with the right size for fresh market plus inter- mediate 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 da	ys for direct	seeding.			

CABBAGI	E	OP - Her	itage Va	rieties			
		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. Home garden.
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 da	vs for direct	seeding.			

CABBAGE		CHINESE	4				
		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	CROP FAILURE 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 Varie	eties						
18001	Michihli	75	5-6	Michihli	Green		Popular, well known variety used in the home garden for many years.
		* Add 10-15 day	s for direct seedi	ng.			

CABBAGE	CHINESE Pak-Choi						
	Days	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.			

CABB	AGE SPECIALTY			M=1,0	00 seeds	
	Price per 1,000 seeds (M)	1M	5M	25M	100M	500M
17082 Hu	iron	13.25	12.65	12.05	11.45	11.35
17090 Re	d Dynasty	10.40	9.80	9.20	8.60	8.50
17070 Re	d Jewel	9.85	9.25	8.65	8.05	7.95
17003 Ru	by Perfection	9.60	9.00	8.40	7.80	7.70
17004 Sa	voy Ace Improved	10.75	10.15	9.55	8.95	8.85
17041 Sa	voy King	10.45	9.85	9.25	8.65	8.55

ge 1 oz.	4 oz.	1#
6.15	9.30	18.50
7.30	11.10	22.00
6.15	9.30	18.50
6.15	9.30	18.50
6.15	9.30	18.50
6.15	9.30	18.50
7.45	11.35	22.50
	6.15 7.30 6.15 6.15 6.15	6.15 9.30 7.30 11.10 6.15 9.30 6.15 9.30 6.15 9.30 6.15 9.30 6.15 9.30

CABBAGE CHINESE			M=	1,000 seeds
Priced per package		1 oz.	4 oz.	1#
18001 Michihli		3.40	8.00	15.95
Price per 1,000 seeds (M)	1M	5M	25M	100M
18010 Blues	Cr	op Failure		
18012 Monument	3.80	3.20	2.90	2.30
18017 Yuki	5.30	4.70	4.40	3.80

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	4.65	4.05	3.75	3.15
49007 Mei Qing Choi	4.65	4.05	3.75	3.15
49013 Toy Choy	3.80	3.20	2.90	2.30
17010 107 01107	5.00	5.20	2.70	2.0

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

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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 tempera-

MANAGEMENT

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

HARVEST

Fresh market carrots are harvested when they are $\frac{3}{4}$ " - $\frac{1}{2}$ " in diameter.

STORAGE

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













BOLERO

ENTERPRISE

OLYMPUS

RAINBOW BLEND

CARROTS	5	Hybrid	Hybrid							
	•	Maturity	Maturity Size Type Ir		Interior	Features				
19032	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. A Sakata variety that combines a great flavor profile and very crisp texture.				

CARROTS	,	ОР				
	•	Maturity	Size	Туре	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.

CAF	RROTS Hybrid			M=1	1,000 seeds
	Price per 1,000 seeds (M)	10M	100M	1,000M	5,000M
19032	Bolero	1.55	1.20	1.15	1.12
19026	Enterprise	1.06	0.71	0.66	0.63
19014	Gold Nugget	1.50	1.15	1.10	1.07
19006P	Musico Pelleted	1.58	1.23	1.18	1.15
19007	Olympus	1.03	0.68	0.63	0.60
19009	Viper	1.08	0.73	0.68	0.65

CARROTS OP				
Priced per package	1 oz.	4 oz.		
Priced per pound in these package sizes			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	5.25	8.35	22.00	21.50
19506U Rainbow Blend Untreated	26.25	42.60	110.35	109.85
19504U Scarlet Nantes Untreated	5.00	7.95	21.00	20.50

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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.













DEPURPLE SYNERGY FL

FLAME STAR

SHAKARIS

CHEDDAR

CAI	JLIFLC	OWER	<u> </u>					
			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 from Seminis 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 inter- nal 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 mar- ket. 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	Summer Only	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	CROP FAILURE A unique deep purple hybrid from Syngen- ta 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=1,0	000 seeds
Priced per package				1 oz.	4 oz.	1#
20501U Snowball Y Improve	d 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	24.40	75.00	74.00	73.00	72.00	71.75
20013 DePurple	28.90	88.80	87.80	86.80	85.80	85.55
20014 Flame Star	28.90	88.80	87.80	86.80	85.80	85.55
20020 Freedom	11.70	35.95	34.95	33.95	32.95	32.70
20025 Graffiti	Crop	Failure				
20015 Minuteman		17.25	16.60	16.15	15.70	15.60
20006 Shakaris		18.85	18.20	17.75	17.30	17.20
20001 Snow Crown		13.15	12.50	12.05	11.60	11.50
20009 Synergy		18.40	17.75	17.30	16.85	16.75
20003 Twister		16.15	15.50	15.05	14.60	14.50
* Multiple packages may be	used to fill	orders for t	hese quant	ities.		





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VICTORIA

GEORGIA OR SOUTHERN

TOP BUNCH 2.0

VATES

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CELERY						
	•	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.
	·					

COLLARI	os	<u> </u>	
	_	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.
22001	Vates	75	A popular non-heading, slow bolting collard with large blue-green leaves. Frost-resistant greens especially suited to the Mid-Atlantic region.

CELERY				M=1,000 seeds
	Priced per package	1 oz.	4 oz.	1#
21002U Tall Ut	ah Celery Untreated	6.35	18.75	60.00
Price	per 1,000 seeds (M)	1M	10M	25M
21003P Hudso	n Pelleted	6.95	6.50	6.15
21001P Victori	a Pelleted	6.95	6.50	6.15

COLLARDS

COLLY (INDS				
Priced per package	1 oz.	4 oz.		
Priced per pound in these package sizes			1#	5#
22003 Champion	Cro	op Failure		
22503 Flash	37.35	106.65	316.00	315.00
22002U Georgia or Southern Untreated		5.70	18.70	18.45
22501 Top Bunch 2.0	38.20	109.05	323.00	322.00
22001 Vates		6.35	21.25	21.00

HIGH TUNNEL & PROTECTED CULTURE INDEX

В	K	R	Carolina Gold
Beets	Kale 67	Radish 112	Mountain Spring 133
Chioggia Guardsmark	Kohlrabi 68	S	Rambler
Red Ace .13 Touchstone Gold .13	M	Squash Summer Green	Roadster
C	Mustard	Kopana	STM2255
	mastara	Liberty	Greenhouse
Cabbage	P	т	Home Garden / Bedding
Chinese	Peppers	1	Better Boy Plus 131
Cauliflower 25	Bell	Tomato	Big Beef 131
Cadimower	 :	Cherry	Big Beef Plus 131
Collards 26	Green to Red Sprinter	Chocolate Sprinkles 135	Celebrity Plus 131
Cucumbers	Other Colors	Gold Spark 135	Early Girl 131
Protected Culture	Milena	Ruby Crush 135	Lemon Boy Plus 131
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G	Abay	Tidy Treats 135	RuBee Dawn 132
	Dicaprio	Fresh Market	RuBee Goddess 132
Greens 61	Miscellaneous Sweet	BHN-871 133	

HIGH TUNNEL PRODUCTION

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

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

Which crops are typically grown within a high tunnel?

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

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

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

Planning for your high tunnel

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

Variety Selection

Choosing the right variety for your high tunnel is important. Varieties that perform well in the open field will not necessarily perform the same in a high tunnel. While some growers have learned

how to adapt their cropping practices in order to use open field varieties in high tunnels, going this path will require some trial and error. We have highlighted several varieties in our catalog that have a proven track record in high tunnel production.

Fertility

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

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

For more information on specific fertility needs we suggest contacting:

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



Pruning and Trellising

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

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

Pollination

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

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



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CORN

PLANTING

Plant seeds 8 - 12 inches apart on 30 inch rows to achieve optimum yield. Seed depth should be $\frac{3}{4}$ " - $\frac{1}{4}$ " 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 38. 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 <u>and</u> from other types of corn including field corn, popcorn, and ornamental corn.

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

RELATIVE MATURITY

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

HARVEST

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

STORAGE

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

DISEASE CODES

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

DISEASE RATINGS

R - Resistant

M - Moderate Resistant

MS - Moderately Susceptible

S - Susceptible

USE RECOMMENDATIONS

FM - Fresh Market HG - Home Garden

P - Processing

S - Shipping

GROWER PREFERRED ALL-STARS

CORN

PERFORMANCE SERIES

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

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

ATTRIBUTE PLUS INSECT PROTECTED

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

SH2 / IMPROVED SUPER SWEETS

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 41) - 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.

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.

SH2 / IMPROVED SUPER SWEETS CONTINUED

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 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.

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 bicolor 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.



































ANTHEM XR II



OBSESSION II



PASSION II



SV9010SA





TIGER SHARK II



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



 $\underline{https://www.ruppseeds.com/vegetables/sweet-}$ corn-guide

CORN		PERFO	PRMAN	ICE SER	SERIES™ Can be sprayed with Rour					Roundup brand agricultural herbicide.	
E		Relative Maturity	Color	Ear Size length x diameter	Kernel Rows	Rust	Stewart's	NLB	Use	Eating Quality	Features
02138	Temptation II	72	Bi-Color	7 ½ - 8 x 1.9"	16 - 18	M	R	М	FM	**	Compare to Temptation. Has excellent cold soil tolerance for first or second earl plantings.
SH2											
03132	Anthem XR II	74	Bi-Color	8 x 1.8"	14 -18	R			FM, S	***	Enjoy the eating quality and rust pro- tection of Anthem XR along with added benefits of Roundup Ready and BT trait found in Performance Series sweetcorn.
NEW 03134	Tiger Shark II	74	Bi-Color	7.5 x 1.9"	16 - 18	R		-	FM, S	***	Tiger Shark II is the newest midseason be color SH2 variety. Excellent eating quali mid-early maturity, long ear with refine kernels.
_	Starfighter II 🔌 🗐	79	White	8 x 1.9"	16 - 18	-	M	-	FM, S	***	Starfighter II is the biotech version of SV1580SC and offers Northern Leaf Blipprotection.
03080	A. (=	80	Bi-Color	8 - 8.5 x 1.8"	16 - 20	M	M	M	FM, S	***	Compare to Obsession. Straight SH2 typ that eats very similar to many improved supersweets. High-end yields.
03082	Passion II	81	Yellow	8 x 1.7"	18 - 20	M	S	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	M	FM, S	***	Compare to 7143. Improved version of Obsession with better rust package and husk package eye appeal.
03086	A. (=	83	Yellow	8 x 2"	18 -20	R	S	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	M	FM	***	Maintains the same great taste and eati- quality of other high quality synergistic varieties.
		unique wee cides. Be su	d control ben	label and conf	up WeatherN	ΛΑΧ® an	d Round	dup Pow	erMAX® agri	icultural herbi-	Roundup 201/13/1001





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

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.

the following link. www.ruppsecus.com/bayer100

Oregon and Idaho.

If you are not licensed you may visit www.ruppseeds.com/Agcelerate or call

Documents Required:



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.

11 you are not neensed you may visit www.ruppseeds.com/Agcelerate or call 1-800-768-6387 ext. 4 to register or we can mail you a 2023 Bayer Technology/ Stewardship Agreement to fill out prior to us shipping your seed. Allow 3 - 4 weeks for mailed application to be processed.

INSECT RESISTANCE // HERBICIDE TOLERANCE

CORN PERFORMANCE SERIES™	M=	1,000 seeds
Price per 1,000 seeds (M)	25M	100M
SE		
02138 Temptation II Cruiser	15.60	15.60
SH2		
03132 Anthem XR II Cruiser	17.71	17.71
03080 Obsession II ^{Cruiser}	17.88	17.88
03082 Passion II ^{Cruiser}	17.53	17.53
03125 Starfighter II Cruiser	17.36	17.36
03084 SV9010SA ^{Cruiser}	17.89	17.89
03086 SV9012SD Cruiser	17.28	17.28
03134 Tiger Shark II ^{Cruiser}	Call for Curr	ent Pricing
Synergistic		
04026 SV9014SB ^{Cruiser}	16.05	16.05

1145ECT RESISTANCE // TIERDICIDE TOLLIKANCE								
	Seminis Performance Series™	Syngenta Attribute® I	Syngenta Attribute® Plus	Syngenta Attribute® II				
Key Sweet Corn Pest								
European Corn Borer	Е	E	E	Е				
Corn Earworm	VG*	F-G*	E*	E*				
Fall Armyworm	Е	G	E	Е				
Black Cutworm			VG	VG				
Additional Above-Ground P	ests							
Southwestern Corn Borer	Х		Х	Х				
Sugarcane Corn Borer	Х		Х	Х				
Common Stalk Corn Borer	Х		Х	Х				
Southern Cornstalk Corn Borer	Х		Х	Х				
Beet Armyworm			Х	Х				
Dingy Cutworm			Х	Х				
Western Bean Cutworm			Х	Х				
Additional Below-Ground P	ests							
Western Corn Rootworm	Х							
Northern Corn Rootworm	Х							
Mexican Rootworm	Х							
Protein	Cry1A.105, Cry2Ab	Cry1Ab	Vip3A, Cry1Ab	Vip3A, Cry1Ab				



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.

* 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.

Glyphosate

Glufosinate Glufosinate

Key: E= excellent, VG= very good, F-G= fair to good, G= good

Herbicide Tolerance



























Glyphosate

Glufosinate

















BSS 0977

WH 0809

BC 0528

BC 0805

PATRIARCH

BSS 0761

CORN		ATTRI	ATTRIBUTE® Insect Protection						Can be sprayed with glufosinate herbicide.		
		Relative Maturity	Color	Ear Size length x diameter	Kernel Rows	Rust	Stewart's	NLB	Use	Eating Quality	Features LINK W
SH2											
03137	BSS 0977 🔰 167	78	Bi-color	8 x 1.8"	14 - 16	R	М	М	S	**	A mid-season fresh market shipper. Has an attractive ear with excellent tip fill, plus disease and ear worm control.
Synergistic											
04018	WH 0809 🕥 167	80	White	8 ½ x 1.9"	16	R	М	S	FM	***	A white Triplesweet from Syngenta with good eating quality and disease protection. Avalon BT.
04207	BC 0528 🗘 167	81	Bi-color	8 ¼ x 1.9"	16 - 18	-	-		FM, HG	****	Bt version of Primus.
04019	BC 0805 🔌 167	82	Bi-color	8 x 1.9"	16 - 18	R	S	S	FM	***	A rust resistant, Bt version of Providence.
04017	DC 0000 W	02	Attribute®	varieties are	resistant to	Liberty	herbicio	des. They	may be spra	yed with cor	nventional corn herbicides as well as Liberty {glufosinate}
0001								hat the	chemical you	, , ,	g is 100% glufosinate with no other active ingredients.
CORN		ALTRI	BOTE _®	PLUS	nsect Pr	otec	tion				Can be sprayed with glufosinate herbicide.
SH2											A
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.
	3										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
03101	BSS 0761 🔌 167	80	Bi-color	8 x 1.8"	16 - 18	-	-	-	FM, S	****	stack.
Synergistic 04042	Milky Way 💜 167	82	White	8 ¼ x 1.8"	16	R	_	_	FM, HG	***	The next generation of market-leading TripleSweet varieties. Offers improved insect resistance and tolerance to Liberty herbicide through the Attribute Plus trait stack.
7 (01012			Attribute®	varieties are	resistant to	Liberty			may be spra		nventional corn herbicides as well as Liberty {glufosinate} g is 100% glufosinate with no other active ingredients.
CORN		ATTRI	BUTE®	II Insect	Protect	ion		Cai	n be spra	yed with	n glufosinate and/or glyphosate herbicides.
SH2											
NEW 03230	Crown 🔌 167	78	Yellow	8 x 2"	16	R			FM, S	****	An Attribute II that is a strong uniform plant with uniform ears.
NEW 03225	Matriarch 🔌 167	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.
Synergistic											
04055	Quick Trip 🔌 📆	72	Bi-color	7.5 x 1.8"	14 - 16	-	-	-	FM	***	A bi-color, TripleSweet type, Quick Trip boasts a dark green husk with nice flags. Maximum planting population 20,000 per acre.
NEW 04057	Revision 🔌 167	78	Bi-color	8 x 1.8"	14 - 16		-	_	FM, S	***	Attrbute II, TripleSweet, and a Remedy replacement
04043	Remedy 167 & 168	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.
			Liberty {gl label and	ufosinate} he	erbicides and the chemica	d glyph Il you a	iosate he re sprayi	erbicides ing is 10	orn herbicides 5. Be sure to re 0% glufosina	ead the	LIBERTY LINK W













REVISION NEW









High Quality, Picture Perfect Ears

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

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

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 Bayer.

Documents Required:



© Copyright 2022

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.

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
SH2		
03137 BSS 0977 Bi-Color Cruiser	12.94	12.94
Synergistic		
04207 BC 0528 Bi-Color Cruiser	15.24	15.24
04019 BC 0805 Bi-Color Cruiser	14.68	14.68
04018 WH 0809 White Cruiser	12.64	12.64

CORN ATTRIBUTE II® Insect Protection	M=1,0	00 seeds
Price per 1,000 seeds (M)	25M	100M
SH2		
03230 Crown Yellow Cruiser	20.44	20.44
03225 Matriarch Bi-Color Cruiser	20.16	20.16
Synergistic		
04034 Aspire Yellow Cruiser	DISCONTINUED	
04055 Quick Trip Bi-Color Cruiser	19.72	19.72
04043 Remedy Bi-Color Cruiser	19.68	19.68
04057 Revision Bi-Color Cruiser	20.08	20.08

CORN ATTRIBUTE PLUS® Insect Protection		M=1,000 seeds
Price per 1,000 seeds (M)	25M	100М
SH2		
03101 BSS 0761 Bi-Color Cruiser	17.85	17.85
03108 Patriarch Bi-Color Cruiser	19.84	19.84
Synergistic		
04042 Milky Way White Cruiser	19.55	19.55



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. www.ruppseeds.com/Cruiser



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

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Sweet Corn Genetic Types

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.

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 2023 Vegetable Resource Guide includes over 100 sweet corn hybrids in the 6 genetic types shown here. Several of these types are related, so from a variety selection and crop planning perspective, we view them as 3 genetic type groups. Each group has slightly different recommendations for the other types they need to be isolated from. Please see the genetic type groups to the right for more information on the characteristics of each group and its isolation requirements.

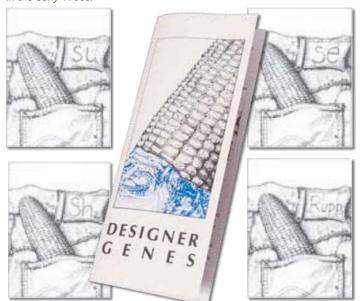
ISOLATION

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

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

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

Helping growers produce the best sweet corn for their markets has been a priority for us since we started in the vegetable business. These graphics are from a "Designer Genes" brochure we published in the early 1980s.



SU NORMAL

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

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

SE

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

SYNERGISTIC

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

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

SH2 SH2 EXTRA SWEET

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

IMPROVED SUPER SWEETS

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

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

EATING QUALITY RATING

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

SWEET CORN MATURITY INDEX

	.		
	Relative		
BI-COLOR	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
Kickoff XR	69	Improved Super Sweets	40
Solstice	70	Improved Super Sweets	40
Temptress	70	Synergistic	37
Hero XR	71	Improved Super Sweets	40
Ignition	72	Improved Super Sweets	40
Profit Ouisk Trip	72 72	Synergistic	37 32
Quick Trip Signature XR	72	Synergistic Improved Super Sweets	40
Temptation	72	SE	36
	· -		
Temptation II	72	SE	30
Xtra Tender 2472 XR	72	Improved Super Sweets	40
Anthem XR	73 73	Improved Super Sweets	40 37
Cappuccino Anthem XR II	73	Synergistic SH2	30
Tiger Shark II	74	SH2	30
Xtra Tender 274A	74	Improved Super Sweets	40
Xanadu	74 - 75	Improved Super Sweets	40
Allure	75	Synergistic Synergistic	37
Ambrosia	75	SE	36
Butter & Sugar	75	SU Normal	36
Caliber XR	75	Improved Super Sweets	40
Luscious	75	SE	36
Nirvana	75	Improved Super Sweets	41
Nectar	76	Synergistic	37
Tempo XR	76	Improved Super Sweets	41
American Dream	77	Improved Super Sweets	41
ACes	78	Improved Super Sweets	42
AP358	78	Improved Super Sweets	42
BSS 0977	78	SH2	32
Cadence XR	78	Improved Super Sweets	42
Crave	78	Improved Super Sweets	42
Essence	78	Synergistic	37
Matriarch	78	SH2	32
Octane	78	Improved Super Sweets	42
Revision	78	Synergistic	32
SV9014SB	78	Synergistic	30
Enchanted	79	Improved Super Sweets	42
Montauk	79	Synergistic	37
Obsession	79	SH2	42
Patriarch	79	SH2	32
7143 EX08767143	80	SH2	42
BSS 0761	80	SH2	32
Obsession II	80	SH2	30
Precious Gem	80	SE Supporting	36
BC 0528	81	Synergistic	32
Primus	81	Synergistic	37
SV9010SA BC 0805	81	SH2	30 32
	82	Synergistic	
Jackpot	82	SE	36

BI-COLOR	Relative Maturity	Genetic Type	Page #
Providence	82	Synergistic	38
Remedy	82	Synergistic	32
Serendipity	82	Synergistic	38
Peaches & Cream EH	83	SE	36
Delectable	84	SE	36
Honey & Cream	84	SU Normal	36

	A Relative		
WHITE	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 lmp	75	Improved Super Sweets	44
Glacial	76	Improved Super Sweets	44
Mirage	78	Synergistic	43
Starfighter II	79	SH2	30
SV1580SC	79	SH2	44
Mattapoisett	80	Synergistic	43
WH 0809	80	Synergistic	32
Avalon	82	Synergistic	43
Milky Way	82	Synergistic	32
Silver King	82	SE	43
Silver Queen	88	SU Normal	42

	A		
YELLOW	Relative Maturity	Genetic Type	Page #
Early Sunglow	62	SU Normal	44
Café	68	Synergistic	45
Takeoff MXR	69	Improved Super Sweets	46
Icon XR	72	Improved Super Sweets	46
Xtra Tender 1572	72	Improved Super Sweets	46
Inferno	74	Synergistic	45
Bodacious RM	75	SE	45
Gold Nuggets	75	SE	45
SS7403RY	75	Improved Super Sweets	46
Gold Standard	76	Synergistic	45
Crown	78	SH2	32
Honey Select	79	Synergistic	45
Kandy Korn EH	81	SE	45
Passion II	81	SH2	30
SC1336	81	SH2	46
SV9012SD	83	SH2	30
NK 199	84	SU Normal	44
Illini Xtra Sweet	85	SH2	46
Incredible R/M	85	SE	45
lochief	87	SU Normal	44





























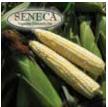












FASTLANE

TEMPTATION

LUSCIOUS TSW PRECIO

PRECIOUS GEM

LATTE

CORN		BI-COL	OR SU I	Normal			
		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 No	rmal										
Priced per pound in these package sizes	1#	5#	25#	50#	100#*						
01102 Butter & Sugar	11.80	10.55	10.20	9.80	9.50						
01103 Honey & Cream	13.80	12.55	12.20	11.80	11.50						
* Multiple packages may be used to fill orders for these quantities.											



INOCULANT FOR SWEET CORN

SabrEX[™] root inoculant is available for sweet corn. Apply at a rate of .5 oz. per 50 pounds of seed.

See page 150 for more information and pricing.

CORN		BI-COL	OR SE								
		Relative Maturity	Ear Height	Ear Size length x diameter	Kernel Rows	Rust	Stewart's	NLB	Use	Eating Quality	Features
02189	Fastlane 🔷	67	14"	7 x 1.7"	14 - 16	М	S	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	S	FM	**	A Seminis product for the first early slot. Has excellent cold soil emergence.
02126	Ambrosia	75	20"	8 x 2"	16	S	R	М	FM, HG	***	A bi-color version of Bodacious with good vigor.
02178	Luscious 💜	75	15"	8 x 1.9"	16 - 18	М	М	М	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	М	M	М	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	М	М	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	S	М	HG	**	A popular home garden hybrid.
02132	Delectable	84	26"	9 x 2.1"	18	М	М	М	FM, HG	****	Bi-color version of Incredible. Large ear, dark green husk.

CORN BI-COLOR SE	COLOR SE									
Priced per pound in these package sizes	1#	5#	25#	50#	100#*					
02126 Ambrosia	18.40	17.15	16.80	16.40	16.10					
02132 Delectable	18.35	17.10	16.75	16.35	16.05					
02150 Jackpot	18.25	17.00	16.65	16.25	15.95					
02109 Peaches & Cream EH	16.05	14.80	14.45	14.05	13.75					

CORN BI-COLOR SE				M=1,0	000 seeds
Price per 1,000 seeds (M)	2.5M	10M	25M	100M	500M*
02189 Fastlane Cruiser	10.30	9.55	9.10	8.65	8.55
02178 Luscious ^{Cruiser}	7.30	6.55	6.10	5.65	5.55
02144 Precious Gem Cruiser	8.40	7.65	7.20	6.75	6.65
02137 Temptation Cruiser	9.55	8.80	8.35	7.90	7.80

 $[\]mbox{\ensuremath{^{\star}}}$ Multiple packages may be used to fill orders for these quantities.













ALLURE **NECTAR**







EATING QUALITY RATING

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

CORN		BI-COLOR Synergistic Pricing on									Pricing on page 38
		Relative Maturity	Ear Height	Ear Size length x diameter	Kernel Rows	Rust	Stewart's	NLB	Use	Eating Quality	Features
04032	Latte 🔷	68	20"	7 ½ - 8 x 1.7"	12 - 16	-	-	-	FM	**	First early variety with excellent ear length in this class. Very good eating corn with a dark green husk package.
NEW 04020	QuickStart 🔷	68	22"	8 x 1.8"	16	R	-	М	FM, HG	***	QuickStart is an exciting addition to our early maturity line up. It has a strong plant and large ear as well as excellent eating quality for its season. QuickStart has strong emergence and vigor and is a great choice for your early sweet corn plantings.
04049	Temptress 🔌	70	16"	7 ¾ x 2"	14 - 16	R	-	М	FM, HG	***	First "Quad Sweet" variety in our sweet corn lineup. Has an attractive ear with an eye-catching husk package. Moderately good cool soil emergence.
04214	Profit 💜	72	22"	8 x 1.8"	14	М	М	М	FM, HG	***	Proved itself in recent multiple locations as one of the year's favorites. Very large ears with attractive flags, good husk cover and tip fill. Great eating quality.
04044	Cappuccino Ò	73	17"	7 ½ - 8 x 1.9"	16	M	M	М	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	R	FM, HG	***	A Seneca Vegetable Research hybrid with good early vigor. Nice husk package with great eating quality and flavor.
04052	Nectar 🔌	76	18"	8 ½ 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 ბ	78	18"	8 x 1.8"	16 - 18	M	M	M	FM	***	Excellent eating quality. High row count for a refined kernel. Compare to Providence with a few days earlier maturity.
04021	Montauk 🔷	79	18"	8 x 1.8"	16 - 20	S	М	М	FM	****	A widely adapted hybrid with good vigor, high yields and excellent flavor.
04210	Primus 💜	81	18"	8 x 2"	14 -16	M	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.

Additional Bi-Color Synergistic corn can be found on the next page --->.







SAVE WITH CASH DISCOUNTS

Cash discounts are available throughout the season and are a great way to add money to your bottom line.

See page 154 for all of the details.

 November
 .7%

 December
 .6%

 January
 .5%

 February
 .4%

 March
 .3%

 April
 .2%

PROVIDENCE

SERENDIPITY

CORN	BI-COI	BI-COLOR Synergistic								
	Relative Maturity	Ear Height	Ear Size length x diameter	Kernel Rows	Rust	Stewart's	NLB	Use	Eating Quality	Features
04014 Providence	82	18"	8 ½ x 1.9"	16 - 18	R	S	S	FM	****	A rust resistant version of Serendipity with excellent eating quality.
04013 Serendipity 🕏	82	18"	8 x 1 9"	16 - 18	ς	S	S	FM. HG	***	A variety with an added supersweet kick for extended shelf life and higher eating auality

CORN BI-COLOR Synerg	gistic			M=1,0	000 seeds
Price per 1,000 seeds (M)	2.5M	10M	25M	100M	500M*
04009 Allure Cruiser	12.15	11.40	10.95	10.50	10.40
04044 Cappuccino Cruiser	12.10	11.35	10.90	10.45	10.35
04039 Essence Cruiser	12.30	11.55	11.10	10.65	10.55
04032 Latte Cruiser	12.45	11.70	11.25	10.80	10.70
04021 Montauk Cruiser	12.65	11.90	11.45	11.00	10.90
04052 Nectar Cruiser	11.85	11.10	10.65	10.20	10.10
04210 Primus Cruiser	12.70	11.95	11.50	11.05	10.95
04214 Profit Cruiser	11.05	10.30	9.85	9.40	9.30
04014 Providence Cruiser	10.25	9.50	9.05	8.60	8.50
04020 QuickStart Cruiser	11.80	11.05	10.60	10.15	10.05
04013 Serendipity Cruiser	9.45	8.70	8.25	7.80	7.70
04049 Temptress Cruiser	11.60	10.85	10.40	9.95	9.85
* Multiple packages may be used	to fill orders	for these qua	ntities.		

INSECT SCOUTING RESOURCES

www.ruppseeds.com/InsectForecast

Learn more about current corn insect pressure.

www.ruppseeds.com/NYSweetCorn

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



SWEET CORN PRODUCTION RESOURCES www.ruppseeds.com/SCPestID

This is a resource from the Great Lakes Vegetable Working Group in addition to some of the leading researchers in the vegetable industry. It helps identify

profit taking weeds and insects, and discusses best management practices for sweet corn.



www.ruppseeds.com/UMassSC

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



www.ruppseeds.com/uoiScout

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





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 38. 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.

Sweet Corri Guide

GROW YOUR BEST SWEET CORN!

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



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

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CATALYST XR

SOLSTICE 💢

CORN			BI-CO	OR SH	I2 Extra Sw	veet & Im	norov	ad Su	ner Si	waats		Pricing on page 41
COMIT			Relative	Ear Height	Ear Size length x diameter	Kernel Rows	Rust	Stewart's	NLB	Use	Eating Quality	Features
031	117	Catalyst XR 💜	66	27"	8 x 1.75"	16-18	R			FM, S	**	Catalyst XR is the earliest supersweet on the market. Has admirable ear size, strong tip fill, as well as outstanding kernel color and sweetness. Perfect for early fresh market and shipping. Tolerant to HPPD/ALS.
NEW 032	245	Bolt XR 🐿	67	16"	7.25 x 1.8"	14-18	R		M	FM	***	Bolt XR is 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.
★ 030	038	Kickoff XR 🕏	69	28"	8 ¼ x 1.9"	16-18	М	-	MS	FM, S	***	Impeccable eating quality for early in the season. Very good white to yellow kernel contrast. Strong tip fill. Tolerant to HPPD/ALS.
* 031	109	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.
030	037	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.
032	233	Ignition 📦	72	23"	8" x 1.8"	16 - 18	IR	IR	IR	FM, HG	***	Ignition is a new 72 day bi-color with strong cold soil emergence, a tender bite and consistent high yield potential with a high quality ear.
032	215	Signature XR 🐿	72	27"	8 x 1.8"	16-18	R	-	-	FM	****	Signature XR has phenomenal 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. Tolerant to HPPD/ALS.
030	013	Xtra Tender 2472 XR 🔌	72	24"	8 ½ x 1.6"	14 - 16	R	S	S	FM, S	***	Rust resistant version of Xtra Tender 2170.
030	003	Anthem XR 🔷	73	24"	8 x 1.8"	16 - 20	R	М	М	FM, S	***	Excellent yield potential and better than average lodging tolerance. Superb eating quality. Great all season long.
★ 031	119	Xanadu 🍑 🖒	74 - 75	25"	8 x 2"	16 - 18			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 and consumer appeal.
031	174	Xtra Tender 274A 🕠	74	23"	8 x 2"	18 - 20	S	M	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.
		Caliber XR 🕏	75	21"	8 ¼ x 1.8"	16-18	М	-	MS	FM	***	Superb eating quality with refined kernels for excellent texture. Plants are healthy and very clean for easier picking.



SIGNATURE XR



XTRA TENDER 2472 XR



ANTHEM XR



TEMPO XR



UNIQUE TASTE & TEXTURE

From the Nirvana series of sweet corn from Crookham.







EDEN RMN



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CALIBER XR

CORN		BI-CO	BI-COLOR SH2 Extra Sweet & Improved Super Sweets									
		Relative Maturity	Ear Height	Ear Size length x diameter	Kernel Rows	Rust	Stewart's	NLB	Use	Eating Quality	Features	
03025 Nirva	ana 🍑 Ò	75	24"	8 x 1.8"	16	M	-	R	FM, HG	****	Combination of great vigor and emer- gence along with fantastic flavor and texture.	
03122 Tem p	po XR 🐿	76	26"	8x2"	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.	
03058 Am e	rican Dream Ò	77	26"	7.5 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.	

Additional Bi-Color Improved Super Sweet corn can be found on the next page --->.

CORN BI-COLOR SH2 Extra S	weet &	Improv	ed Sup	er Swe	ets
Price per 1,000 seeds (M)	2.5M	10M	25M	100M	500M*
03199 7143 EX 08767143 Cruiser	11.95	11.20	10.75	10.30	10.20
03023 ACes ^{2060 Cruiser}	9.85	9.10	8.65	8.20	8.10
03058 American Dream Cruiser	13.45	12.70	12.25	11.80	11.70
03003 Anthem XR ^{Cruiser}	13.00	12.25	11.80	11.35	11.25
03007 AP358 ^{Cruiser}	14.10	13.35	12.90	12.45	12.35
03245 Bolt XR ^{Cruiser}	13.80	13.05	12.60	12.15	12.05
03218 Cadence XR Cruiser	13.15	12.40	11.95	11.50	11.40
03091 Caliber XR Cruiser	12.50	11.75	11.30	10.85	10.75
03117 Catalyst XR Cruiser	13.20	12.45	12.00	11.55	11.45
03216 Crave Cruiser	11.20	10.45	10.00	9.55	9.45
03102 Cumberland Cruiser	11.95	11.20	10.75	10.30	10.20
03039 Enchanted Cruiser	11.90	11.15	10.70	10.25	10.15
03037 Hero XR ^{Cruiser}	13.10	12.35	11.90	11.45	11.35
03103 Honey & Pearl	9.55	8.80	8.35	7.90	7.80
03033 Honor XR ^{Cruiser}	11.00	10.25	9.80	9.35	9.25

CORN BI-COLOR SH2 Extra Sweet & Improved Super Sweets											
Price per 1,000 seeds (M)	2.5M	10M	25M	100M	500M*						
03233 Ignition Cruiser	12.40	11.65	11.20	10.75	10.65						
03038 Kickoff XR ^{Cruiser}	13.45	12.70	12.25	11.80	11.70						
03025 Nirvana ^{Cruiser}	13.60	12.85	12.40	11.95	11.85						
04015 Obsession Cruiser	11.35	10.60	10.15	9.70	9.60						
03235 Octane Cruiser	12.40	11.65	11.20	10.75	10.65						
03215 Signature XR Cruiser	13.50	12.75	12.30	11.85	11.75						
03109 Solstice Cruiser	13.35	12.60	12.15	11.70	11.60						
03035 Super Surprise Cruiser	11.50	10.75	10.30								
03122 Tempo XR ^{Cruiser}	13.50	12.75	12.30	11.85	11.75						
03119 Xanadu ^{Cruiser}	13.85	13.10	12.65	12.20	12.10						
03174 Xtra Tender 274A Cruiser	12.70	11.95	11.50	11.05	10.95						
03013 Xtra Tender 2472 XR ^{Cruiser}	10.75	10.00	9.55	9.10	9.00						
* Multiple packages may be used to fill orders for these quantities.											













AMERICAN DREAM

ACES

CADENCE XR

CRAVE

OCTANE 🗡

CORN		BI-CO	LOR SH	I2 Extra Sv	veet & Im	nprov	ed Su	per S	weets		Pricing on page 41
		Relative Maturity	Ear Height	Ear Size length x diameter	Kernel Rows	Rust	Stewart's	NLB	Use	Eating Quality	Features
03023	ACes 🐿	78	28"	8 x 1.9"	16 - 18	R	R	MS	FM	***	No fear of getting lost in the shuffle, this variety has been smoking good in trials the past couple of years. High marks across the board. A game changer.
03007	AP358 🔊	78	20"	8 x 1.9"	16-18	М	М	М	FM	***	Crookham variety that sets a new standard for eating quality in the improved SH2 category. The AP in the name refers to Augmented PLUS. With easy snap, good tip fill and attractive husk package.
03218	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.
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.
03235	Octane 🕏	78	26"	8 x 1.8"	16 - 18	IR	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.
03039	Enchanted 💜	79	28"	8 x 2"	18 - 20	M	M	M	FM, HG	***	Offers 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	М	М	М	S	**	A super sweet type hybrid from Seminis with excellent eating quality.
03199	7143 EX08767143 ѝ	80	26"	8 x 1.9"	18 - 20	R	M	M	S	***	An improved version of Obsession that has a better rust package, eye appeal and eating quality.

CORN		WHITE	SU Norr	mal				
		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										
Priced per pound in these package sizes	1#	5#	25#	50#	100#*					
01202 Silver Queen	15.65	14.40	14.05	13.65	13.35					
* Multiple packages may be used to fill orders for these quantities.										

EATING QUALITY RATING

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













ENCHANTED

OBSESSION

7143 EX08767143

SILVER QUEEN

SILVER KING

ILLUSION







POST HARVEST FINANCING AVAILABLE
We offer a variety of financing options including 0% interest with no payments due until December 2023.
The best rates are available before 12/31/2022.
See page 155 for all of the details on how

to take advantage of this payment option.



JOHN DEERE FINANCIAL

MIRAGE

MATTAPOISETT

AVALON

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

CORN		WHITE	WHITE Synergistic										
		Relative Maturity	Ear Height	Ear Size length x diameter	Kernel Rows	Rust	Stewart's	NLB	Use	Eating Quality	Features		
04011	Illusion 🔌	72	28"	7 ½ x 1.8"	14 - 16	M	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.		
04016	Mirage 🔷	78	18"	8 x 1.8"	16 - 18	M	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	M	FM, HG	***	A hybrid that has exhibited excellent plant type, ear and eating quality in our trials.		
04017	Avalon 💜	82	20"	8 x 1.9"	16 - 18	S	М	М	FM	***	A white version of Providence.		

CORN WHITE SE					
Priced per pound in these package sizes	1#	5#	25#	50#	100#*
02231 Silver King	18.75	17.50	17.15	16.75	16.45
* Multiple packages may be used to fill orc	lers for the	se quantit	ies.		

CORN WHITE Synergistic			M=1,0	000 seeds	
Price per 1,000 seeds (M)	2.5M	10M	25M	100M	500M*
04017 Avalon Cruiser	10.25	9.50	9.05	8.60	8.50
04011 Illusion Cruiser	11.80	11.05	10.60	10.15	10.05
04501 Mattapoisett Cruiser	12.95	12.20	11.75	11.30	11.20
04016 Mirage ^{Cruiser}	11.30	10.55	10.10	9.65	9.55

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











































LEADOFF MXR

FREEDOM MXR

7401 IMP

CIAL SV 1580

CORN		WHITE	SH2 E	xtra Sweet	& Impr	oved	l Supe	er Sw	eets		
		Relative Maturity	Ear Height	Ear Size length x diameter	Kernel Rows	Rust	Stewart's	NLB	Use	Eating Quality	Features
03243 L o	eadoff MXR 🔊	69	23"	7 ¼-8 x 1.9-2"	16 - 18	R	-	М	FM, HG	***	Leadoff MXR is 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 X	(tra Tender 372A 💜	72	23"	7 ½ x 2"	16 - 20	M	M	S	FM, HG	***	An IFSI hybrid with excellent emergence, and very refined ears and kernels that are tender and sweet.
03204 F i	reedom MXR 🕏	73	19"	7 ½ - 8 x 1.8"	16	R	-	M	FM, HG	***	Great ear size and appearance. High yield potential. Strong lodging tolerance. Attractive husk package.
→ 03224 E 0	den RMN 🌕 🖒	74	26"	8 x 1.75 - 2"	16 - 18	R		R	FM, HG	****	Eden RMN retains the incredible taste of Eden with key improvements: stronger disease package, slightly higher ear height, and a tall- er plant. It adds a new level of dependability and will have strong marketshare for growers.
03049 7	/401 Imp 🔷	75	28"	8 x 1.8"	16 - 18	М	R	М	FM, HG	***	Bright kernel color. Good husk package. Fantastic flavor.
→ 03100 G	ilacial ბ	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 S	v1580SC Ò	79	24"	8 x 1.9"	18 - 20	R	M	M	S	**	A white version of 7143! One of the few late season whites 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								
		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}	12.50	11.75	11.30	10.85	10.75						
03224 Eden RMN ^{Cruiser}	13.50	12.75	12.30	11.85	11.75						
03204 Freedom MXR ^{Cruiser}	13.40	12.65	12.20	11.75	11.65						
03100 Glacial Cruiser	12.45	11.70	11.25	10.80	10.70						
03243 Leadoff MXR Cruiser	13.45	12.70	12.25	11.80	11.70						
03017 SV1580SC ^{Cruiser}	11.90	11.15	10.70	10.25	10.15						
03222 Xtra Tender 372A Cruiser	10.90	10.15	9.70	9.25	9.15						
* Multiple packages may be used to fill ord	ders for the	ese quanti	ties.								

CORN	YELLOW	SU	Normal	
		Pric	ed per pour	ļ

	Priced per pound in these package sizes	1#	5#	25#	50#	100#*
01001 Early Sur	nglow	13.80	12.55	12.20	11.80	11.50
01012 lochief		11.05	9.80	9.45	9.05	8.75
01009 NK 199		11.35	10.10	9.75	9.35	9.05
* Multiple p	askages may be used to fill and	orc for tho	o auantitic)C		

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













BODACIOUS RM

GOLD NUGGETS

KANDY KORN

April2%

INCREDIBLE R/M

SAVE WITH CASH DISCOUNTS November7% December.....6% Cash discounts are available January 5% throughout the season and are a February 4% great way to add money to your bottom line. March 3% See page 154 for all of the details.







CAFÉ

INFERNO **HONEY SELECT**

CORN		YELLOW SE									
		Relative Maturity	Ear Height	Ear Size length x diameter	Kernel Rows	Rust	Stewart's	NLB	Use	Eating Quality	Features
02055	Bodacious RM	75	20"	8 x 1.8"	18	R	М	М	FM, HG	***	A rust resistant Bodacious, same flavor, superior plant and yield. Give this a try.
02007	Gold Nuggets 🕜	75	24"	8 x 2"	20	М	М	М	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	М	М	М	FM, HG	**	Popular, red husked, market hybrid.
02056	Incredible R/M	85	30"	9 x 2"	18	R	M	М	FM, HG	***	Rust resistant and MDM resistant Incredible.

CORN		YELLO	YELLOW Synergistic							
		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.		
NEW 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					
in	Priced per pound these package sizes	1#	5#	25#	50#	100#*
02055 Bodacious RM		17.15	15.90	15.55	15.15	14.85
02007 Gold Nuggets		17.45	16.20	15.85	15.45	15.15
02056 Incredible R/M		17.20	15.95	15.60	15.20	14.90
02005 Kandy Korn EH	I	16.20	14.95	14.60	14.20	13.90
* Multiple packages	may be used to fill ord	ers for thes	e quantiti	es.		

CORN YELLOW Synergistic				M=1,0	000 seeds					
Price per 1,000 seeds (M)	2.5M	10M	25M	100M	500M*					
04045 Cafe Cruiser	12.15	11.40	10.95	10.50	10.40					
04004 Gold Standard Cruiser	11.70	10.95	10.50	10.05	9.95					
04012 Honey Select Cruiser	8.40	7.65	7.20	6.75	6.65					
04008 Inferno Cruiser	10.90	10.15	9.70	9.25	9.15					
* Multiple packages may be used to fill o	* Multiple packages may be used to fill orders for these quantities									













TAKEOFF MXR

ICON XR

XTRA TENDER 1572

SS7403RY

SC1336

CORN		YELLO	DW SH2	2 Extra Sw	veet & Im	prove	ed Su	per Sv	weets		
		Relative Maturity	Ear Height	Ear Size length x diameter	Kernel Rows	Rust	Stewart's	NLB	Use	Eating Quality	Features
0322	23 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.
* 0312	24 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.
0303	31 Xtra Tender 1572 🕏	72	20"	7 ½ - 8 x 1.9"	16 - 18	M	-	MS	FM, S	***	Very good eating quality with dark green husk package and excellent flags. Overall high quality hybrid for roadside or shipping. Yellow version of Anthem.
0304	41 SS7403RY 	75	28"	8 x 2"	16 - 18	S	M	M	FM, S	***	Use in early plantings. High eating quality with very good husk protection and color.
0301	10 SC1336 🔌	81	22"	8 x 1.9"	18 - 20	М	М	М	FM, S	**	An improved Passion with better tip cover.
0300	06 Illini Xtra Sweet	85	17"	8 x 2"	18	М	М	М	HG	*	The original Supersweet.

veet & Ir	mprove	d Supe	r Sweet	s
2.5M	10M	25M	100M	500M*
11.20	10.45	10.00	9.55	9.45
9.25	8.50			
12.50	11.75	11.30	10.85	10.75
13.50	12.75	12.30	11.85	11.75
8.70	7.95	7.50	7.05	6.95
11.90	11.15	10.70	10.25	10.15
10.95	10.20	9.75	9.30	9.20
13.45	12.70	12.25	11.80	11.70
11.20	10.45	10.00	9.55	9.45
13.40	12.65	12.20	11.75	11.65
	2.5M 11.20 9.25 12.50 13.50 8.70 11.90 10.95 13.45	2.5M 10M 11.20 10.45 9.25 8.50 12.50 11.75 13.50 12.75 8.70 7.95 11.90 11.15 10.95 10.20 13.45 12.70 11.20 10.45	2.5M 10M 25M 11.20 10.45 10.00 9.25 8.50 11.30 12.50 11.75 11.30 13.50 12.75 12.30 8.70 7.95 7.50 11.90 11.15 10.70 10.95 10.20 9.75 13.45 12.70 12.25 11.20 10.45 10.00	11.20 10.45 10.00 9.55 9.25 8.50 12.50 11.75 11.30 10.85 13.50 12.75 12.30 11.85 8.70 7.95 7.50 7.05 11.90 11.15 10.70 10.25 10.95 10.20 9.75 9.30 13.45 12.70 12.25 11.80 11.20 10.45 10.00 9.55



For details and pricing on SabrEx inoculant, see page 150.

2022 SWEET CORN TRIAL REPORT

This year, on April 22, we planted our cold soil trial. We looked at 32 different entries. Most of the entries were two row plots 20 feet long. In addition, we trialed four varieties to see how they performed in large block trial settings. The field was a little on the wetter side, but I felt it was under good enough conditions to level up the chisel plowed ground. From April 22 to May 9th, we averaged a soil temperature of 57.8 degrees at 2" deep.

A few newer varieties we looked at were **Kickoff**, **Bolt**, **Solstice**, **Xanadu**, and **Eden RMN**. We liked what we are seeing, and it was interesting to see how each one preformed. Each hybrid brings a little different attribute that helps set them apart. I look forward to hearing how they performed on your farm.

Under the Synergistic umbrella we are continuing to build confidence in Temptress. Temptress has a trifecta effect when it comes to early corn. It has good agronomic value coupled with a nice balance of creaminess and sugar. This year we are introducing **Quick Start**, a 72-day bicolor from Crookham. It has performed well as an experimental number. We look forward to hearing how it performs for you.

We looked at 129 different varieties on the Synergistic side. With a few new people working in customer service, I took the opportunity to go back and relook over a few of the old well know corns like **Bodacious**, **Jackpot**, **Delectable**, and **Butter & Sugar**. This gave them the opportunity to experience and taste for themselves the difference. It is amazing how sweet corn has changed over the years.

In the SH2 sweet corn trial, we evaluated 393 varieties. We are still excited about the performance of **Solstice**, **Signature**, **Xanadu**, **American Dream**, and **Eden RMN**. A few new ones that stuck out in my notes are **Ignition**, **Icon XR**, and **Matriarch**.

This year I traveled to Tolono, Illinois to visit with the sweet corn breeder at IFSI. It was good to see how other people in the seed industry evaluate sweet corn. In late July, I traveled to a sweet corn trial in Fremont, Ohio to see what Crookham has coming down the pipeline. It is great to work with breeders that have a passion and desire to hear feedback. I have already started my list of sweet corns to trial in 2023. I am sure that 2023 will have something educational from which we can learn.

We also participate in university trials. We have found that Purdue and The Ohio State University do an excellent job at trialing. Follow the links to review their findings.

The Ohio State SH2 Trial

www.ruppseeds.com/OhioSH2C



Purdue Supersweet Trial

www.ruppseeds.com/PurdueSSC



We have several experimental varieties that we are getting excited about and have a lot of promise. We look forward to seeing these hybrids again next summer.

by: Pete Dinius - Product Development































POPCORN

EATING QUALITY

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

EATING QUALITY RATING

Good to Poor

EXPANSION

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

LODGING

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

MUSHROOM SHAPE

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

YIELD

Pounds of shelled corn adjusted to 13.5% moisture.

STORAGE

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

CORN		ORN	ORNAMENTAL POPCORN							
	•	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.							
06005	Strawberry	100	A popular variety with strawberry shaped ears for either decoration or popping.							

CORN		POP	CORN						
Commercial	▲ Variatias	Color	Days	Lodging	Yield per Acre	Expansion	Eating Quality	Mushroom	Features
06039		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.
Heritage Va	rieties								
06003	Creme Puff	Yellow	105						A good popping quality, yellow hybrid that often produces two ears per stalk. Home garden.
06004	lopop 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 ORNAMENTAL	ORN				
Priced per package	4 oz.				
Priced per pound in these package sizes		1#	5#	25#	50#
06010 Firecracker	8.50	23.25	15.50	15.25	15.00
06016U Little Bow Peep Untreated	10.35	27.55			
06015U Little Boy Blue Untreated	10.95	29.15	28.55	28.05	27.05
06006 Little Indian	8.75	23.85	15.90	15.65	15.40
05510 Seneca Mini Indian	5.65	15.40	10.25	10.00	9.75
06005 Strawberry	6.75	18.40	12.25	12.00	11.75

CORN POPCORN				M=1,0	00 seeds			
Price per 1,000 seeds (M)		2.5M	10M	25M	100M			
Commercial Varieties								
06039 R98114W White		4.90	4.40	4.15	3.90			
06040 R997 Yellow		4.75	4.25	4.00	3.75			
06027 Ruby Red		9.85	9.35	9.10	8.85			
06026 Shaman's Blue		9.00	8.50	8.25	8.00			
Priced per package	4 oz.							
Priced per pound in these package sizes		1#	5#	25#	50#*			
Heritage Varieties								
06003U Creme Puff Untreated	4.70	12.10	8.05	7.80	7.55			
06004U lopop 12 Untreated	4.70	12.10	8.05	7.80	7.55			
06007U Japanese Hulless Untreated	3.90	9.90	6.60	6.35	6.10			
06008U Purdue 410 Untreated	4.70	12.10	8.05	7.80	7.55			
06002U Snow Puff Untreated	4.70	12.10	8.05	7.80	7.55			
* Multiple packages may be used to fill orders for these quantities.								











































AMERICAN WAY

EARTH TONES

INDIAN ART 104

INDIAN ART CRANBERRY

INDIAN ART RED FIRE

CORN		ORN	AMENTAL CORN
	A	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 FI	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 F	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 FI	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 F1	110	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.
VRRMAZE	RR Maze Corn FI	106	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 FI	112	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 $\frac{1}{2}$ - 5 $\frac{1}{2}$ " in length. Developed by Dr. Baggett, Oregon State University. Larger diameter ear than Little Indian.

See page 49 for Ornamental Popcorn See page 80 for Ornamental Sorghum / Broomcorn

CORN	ORNAMENTAL COF	RN			M=1,0	00 seeds				
	Priced per package	4 oz.								
	Priced per pound in these package sizes		1#	5#	25#	50#*				
05535	American Way	6.15	24.00	16.00	15.75	15.50				
05536U	Earth Tones Untreated	7.15	27.85	18.55	18.30	18.05				
05507	Fiesta	4.75	18.55	12.35	12.10	11.85				
05104	Indian Art 104	7.45	29.10	19.40	19.15	18.90				
05108	Indian Art Cranberry	7.45	29.10	19.40	19.15	18.90				
05101	Indian Art Red Fire	7.65	29.95	19.95	19.70	19.45				
06021	Wampum	7.05	27.55	18.35	18.10	17.85				
	Priced per package			10M	25M	80M				
VMAZE	Maze Corn			Cal	l For Prici	ng				
VRRMAZE	RR Maze Corn			Cal	l For Prici	ng				
VSHOCK	(Shock Corn Call For Pricing									
	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

•	Seeding Rate pounds / acre	Features	
Riofumigants			

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. Give us a call to discuss your specific crop rotation needs.

, ,	-	
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.
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.
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.
Nemat Arugula	5 - 7	Used as a catch crop for Root Knot and Cyst nematodes. Produces a moderate amount of biomass. Very cold and drought tolerant, capable of overwintering in some areas. Typically planted in the fall.
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.
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.
Hairy Vetch	15 - 20	Winter hardy legume. Referred to as "King of Nitrogen Producers". Forms a dense cover that weeds find difficult to penetrate.
	Caliente 199 Caliente Rojo Nemat Arugula Buckwheat Gulf Annual Ryegrass	Caliente 199 9 - 11 Caliente Rojo 8 - 10 Nemat Arugula 5 - 7 Buckwheat 20 - 35 Gulf Annual Ryegrass 12 - 20

COV		000

		Priced per package	5#	25#	50#
Biofumigants					
CBIO.99002U	Caliente 1	119 Untreated	55.00	162.50	290.00
CBIO.99003U	Caliente 1	199 Untreated	58.00	177.50	320.00
CBIO.99006U	Caliente F	Rojo Untreated	60.00	187.50	340.00
CBIO.99001U	Nemat Ar	ugula ^{Untreated}	70.00	237.50	440.00
Cover Crops					
CBWH.99004U	Buckwhe	at Untreated	48.00	135.00	235.00
CRYE.99006U	Gulf Annu	ial Ryegrass Untreated	41.50	95.00	155.00
CVET.99005U	Hairy Vet	ch Untreated	50.00	137.50	240.00
	Prices include	e shipping.			

































CUCUMBERS

PLANTING

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

See "Germination Chart" on page 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 Cassiicola

Ccu - Cladosporium Cucumerium

CMV - Cucumber Mosaic Virus

CVYV - Cucumber Vein Yellowing Virus

DM - Downy Mildew

PM - Powdery Mildew

PRSV - Papaya Ringspot Virus

S - Cucumber Scab

TLS - Target Leaf Spot

WMV - Watermelon Mosaic Virus

ZYMV - Zucchini Yellow Mosaic Virus

COLOR CODES

DG - Dark Green

G - Green

MG - Medium Green

MDG - Medium Dark Green

VDG - Very Dark Green

W - White

HABIT TERMS

GY - Gynoecious

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

MO - Monoecious

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

P - Parthenocarpic

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

PF - Predominately Female

Refers to the blossoms produced by the plant as predominately female.













ALCAZAR

CORINTO

KATRINA

CITADEL

EUREKA

CUCUMBERS	IMBERS PROTECTED CULTURE Parthenocarpic					
•	Season	Plant	Length	Color	Disease	Features
23572 Alcazar F1	Spring /Autumn	Vigorous	8 - 9 "	DG	CVYV, PM	A dark green slicer with excellent shelf life. Well suited to cooler temperatures.
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.

CUCUME	BERS	PIC	KLING					Pricing on page 55
	•	Days	Habit	Plant	L/D Ratio	Color: Spine- Fruit	Disease	Features
23551	Bush Pickle	45	МО	Bush	2.9	-	CMV, S	A bush vine type with concentrated set. For home gardeners.
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.
23014	Eureka ^{FI}	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	МО	Vigorous	2.9	G	PM, S, TLS	Popular northern garden variety. Replaces Boston Pickling.
23003	Supremo FI	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	Р	Vigorous	3	W-MDG	A, ALS, CMV, PM, S	A medium dark, blocky pickle that picks over a sustained multiple harvest.

CHCHM	DEDC DE		
CUCUIVI	DEKOLL	CIECIEL	CULTURE

F	riced per package	100 Seeds	500 Seeds	1000 Seeds
23572 Alcazar		30.40	101.20	168.60
23569U Camaro Untre	ated	124.65	415.40	692.30
23576 Corinto		35.55	118.35	197.25
23574 Excelsior		22.60	75.20	125.30
23571 Katrina		37.00	123.25	205.40









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SV4719CS

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CUCUMBERS			SLIC	SLICERS						
		_	Days	Habit	Plant	L/D Ratio	Color	Disease	Features	
NEV	23502	Brickyard ^{FI}	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 ^{FI}	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 multi-virus tolerance that delivers an improved disease package when compared to SV3462CS and SV4719CS. High number of fancy fruit that allows the grower to potentially experience higher marketable 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	МО	Vigorous	8 - 9 x 2 ½"	VDG	CMV, PM, S	Garden variety.	
NEV	23505	Raceway ^{F1}	54	GY	Vigorous	8 1/2"	DG	A, ALS, CMV,DM, PM, PRSV, S, WMV, ZYMV	Raceway is a dark green, uniform color on vigorous vines. With a high multi-virus resistance package Raceway will work good for late season planting. Raceway will maintain its length where heat stress might be a factor.	
	23606	Spacemaster 80	60	МО	Determi- nate	7 ½ x 2 ½"	DG		Home garden and/or container.	
	23601	Straight Eight	60	МО	Vigorous	8 x 2 ½"	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							
		•	L/D Days Habit Plant Ratio		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.	

VEGETABLE ROOT INOCULANT

Naturall™ for Vegetables contains proprietary and patent pending biologicals that colonize the root system of plants. Crop stress such as disease and dry

weather can be alleviated, and often systemically, so that root colonization by this treatment can affect the physiology of the whole plant resulting in higher yields. See page 150 for application rates and pricing.



The early-season insect protection FarMore F1400 offered by FarMore Technology can Cucurbits prevent or eliminate damage caused by cucumber beetles.

www.ruppseeds.com/fi400



FarMore treated items are highlighted in green in the price tables. Look for this symbol in the product description tables marking FarMore treated items.

GROWER PREFERRED ALL-STARS

CUCUMBERS

HOT HOUSE

For a protected culture slicing cucumber variety, take a look at Alcazar. Not only is Alcazar exceptional for heated greenhouse production, it is also capable of handling cooler temperatures if you are using a hoophouse or high tunnel for a prolonged growing season. You can anticipate a high volume of super selects with Alcazar.

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

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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

Bristol is an exciting up and coming downy mildew tolerant slicing hybrid. Bristol yields a high percentage of fancy grade fruit due to plant health from multivirus tolerance and the latest commercial strain of downy mildew tolerance. Use Bristol in late season plantings when downy mildew pressure is the highest.

Remaining strong, with the highest percentage of purchasing customers in the slicing cucumber section, is Darlington. Plant health and fruit quality are two of Darlington's greatest assets. While some varieties wilt under disease pressure like downy mildew, Darlington seems to power through due to its vigorous plant. Darlington is a proven variety.

> Pete Dinius Product Development



M=1,000 seeds	CUCUMBERS PICKLING
1 oz. 4 oz.	Priced per package
	Priced per pound

1 riceu per puckuge	1 02.	4 02.		
Priced per pound in these package sizes			1#	5#
23551 Bush Pickle	11.20	31.80	80.50	80.00
23001 Calypso	5.60	16.00	40.50	40.00
23002 Carolina	5.60	16.00	40.50	40.00
23101U SMR 58 Untreated		10.30	26.05	25.80

100 Seeds				
	1M	5M	15M	75M*
3.20	11.15	9.40	8.40	7.65
3.70	16.70	14.95	13.95	13.20
3.80	17.00	15.25	14.25	13.50
	9.50	7.75	6.75	6.00
	3.20 3.70	3.20 11.15 3.70 16.70 3.80 17.00	Seeds 1M 5M 3.20 11.15 9.40 3.70 16.70 14.95 3.80 17.00 15.25	Seeds 1M 5M 15M 3.20 11.15 9.40 8.40 3.70 16.70 14.95 13.95 3.80 17.00 15.25 14.25

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

CUCUMBERS BURPLESS SLICERS M=1,000 seeds									
Priced per package	1/2 oz.	1 oz.	4 oz.						
Priced per pound in these package sizes				1#	5#	25#			
23546 Burpless Bush	8.80	12.55	40.10	117.85	116.85	115.85			
Priced per package		100 Seeds	500 Seeds						
Priced per 1,000 seeds in these package sizes				1M	5M	15M			
23506 Tasty Green Burpless 26		4.10	15.25	26.45	24.70	23.70			

CUC	CUMBERS SLICERS	5				M=1,00	00 seeds
	Priced per package	1/2 oz.	1 oz.	4 oz.			
	Priced per pound						
	in these package sizes				1#	5#	25#
23523	Bush Crop	6.45	9.15	30.45	87.00	86.00	85.00
23602	Marketmore 76		5.65	12.85	34.95	34.45	33.95
23606U	Spacemaster 80 Untreated		4.90	11.15	30.25	29.75	29.25
23601U	Straight Eight Untreated		4.70	11.00	29.25	29.00	28.75
	Priced per package	100 Seeds					
	Price per 1,000 seeds (M)		1M	5M	15M	75M*	350M
23502	Brickyard FI400		18.35	16.85	15.85	15.10	14.10
23512	Bristol FI400		18.75	17.25	16.25	15.50	14.50
23004	Cobra FI400		20.75	19.25	18.25	17.50	16.50
23568	Darlington FI400	7.15	25.95	24.45	23.45	22.70	21.70
23503	Dasher II FI400	4.05	14.65	13.15	12.15	11.40	10.40
23505	Raceway FI400		18.75	17.25	16.25	15.50	14.50
23581	SV4719CS FI400		18.00	16.50	15.50	14.75	13.75
Special	priced for bedding plants or	market.					
23564	Conquistador		19.25	17.75	16.75	16.00	
23504	Potluck	5.30	19.25	17.75	16.75		
	* Multiple packages may be used	to fill ord	ers for thes	e quantitie	S.		













FAIRY TALE

GAUDI

MILLIONAIRE

NADIA

WHITE STAR

EGGPLA	NT					
	•	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	Gaudi has long oval shaped fruit with a bright green calyx. Usually the calyx is spineless, but under certain conditions a few small spines can develop. The fruit is firm and is grown on a medium-tall, upright strong growing bush. The variety can be grown indoor and outdoor with good results.
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	A Seminis hybrid with fruit that are large teardrop in shape; 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.
24510	White Star F1	75	30 - 36"	Teardrop	White	Classic tapered teardrop shape. Creamy white fruit are smooth when mature. Approximately 5 to 7 inches in length with a diameter of 2 inches at top and 3.5 to 4 inches at bottom.

EGGPLANT				M=1,0	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	32.15	55.85	89.35	268.65	
Priced per package	500 Seeds				
Price per 1,000 seeds (M)		1M	5M	25M	100M
24505 Epic	7.35	11.75	10.65	10.25	9.70
24526 Fairy Tale	41.70	66.65	65.55	65.15	64.60
24502 Gaudi	17.85	28.55	27.45	27.05	26.50
24525 Hansel	41.70	66.65	65.55	65.15	64.60
24522 Megal	18.00	28.75	27.65	27.25	26.70
24524 Nadia	16.15	25.80	24.70	24.30	23.75
24521 Night Shadow	9.25	14.75	13.65	13.25	12.70
24516 Santana	10.85	17.30	16.20	15.80	15.25
24510 White Star	9.60	15.30	14.20	13.80	13.25

VEGETABLE ROOT INOCULANT

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weather can be alleviated, and often systemically, so that root colonization by this treatment can affect the physiology of the whole plant resulting in higher yields. See page 150 for application rates and pricing.

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We offer a variety of financing options including 0% interest with no payments due until December 2023. The best rates are available before 12/31/2022.

See page 155 for all of the details on how to take advantage of this payment option.



ENDIVE /	ESCAROLE	CHI	CHICORY						
	*	Days	Features						
Endive - narro	w, finely cut, curly leaves								
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 Baby Endive	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.						
Escarole - sm	Escarole - smooth, rounded, broad leaves								
25001	Broadleaf Batavian	80	A Heritage variety. Dark green leaf, white midrib. Upright growth, creamy yellow hearts. Escarole type.						

ENDIVE / ESCAROLE CHIC	M=1,0	000 seeds		
Priced per package	1 oz.	4 oz.		
Priced per pound in these package sizes			1#	5#
25001U Broadleaf Batavian Untreated	4.30	8.15	21.25	20.50
25002U Fine Green Curled Untreated	4.30	8.15	21.25	20.50
Priced per 1,000 seeds in these package sizes		10M	100M	400M
25005U Lorca Untreated		1.00	0.95	0.85
25009U Tosca Untreated		1.00	0.95	0.85
25010U Tres Fine Maraichere Untreated		0.50	0.45	0.35
25011U Twinkle Untreated	,	1.30		

































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.

GOURDS		LAGENARIA SICERARIA			
	•	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 ^{Cucuzzi}	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 Sponge	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.		
26004	Mixed Large Types	100 - 130	A new mix of large types that are favorites of Rupp growers including; Birdhouse Martinhouse, Calabash, Extra Long Handled Dipper, Large Bottle, Large Speckled Apple and Speckled Swan.		
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 on page 60
	*	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 $2\frac{1}{2}$ 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 $\frac{1}{2}$ 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 $2\frac{1}{2}$ 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.
			Additional Gourd descriptions and pricing can be found on the next page>.



FarMore F1400 Cucurbits

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. www.ruppseeds.com/fi400



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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 SICE	RARIA	\				
Priced per package	1 oz.	4 oz.				
Priced per pound in these package sizes			1#	5#	25#	Seeds /lb.
26034 Birdhouse Martinhouse	9.50	22.25	63.10	62.10	61.10	3,500
26034U Birdhouse Martinhouse Untreated	9.50	22.25	63.10	62.10	61.10	3,500
26002U Bushel Untreated**	13.05	30.70	87.00	86.00	85.00	1,800
26016 Calabash Penguin	10.10	23.65	67.00	66.00	65.00	2,500
26015 Caveman's Club Maranka	13.05	30.70	87.00	86.00	85.00	2,300
26035 Extra Long Handled Dipper	9.85	23.10	65.45	64.45	63.45	4,500
26020 Italian Edible	10.10	23.65	67.00	66.00	65.00	2,600
26021 Large Bottle	10.10	23.65	67.00	66.00	65.00	2,300
26033 Large Speckled Apple	10.95	25.70	72.80	71.80	70.80	2,400
26003 Luffa	13.05	30.70	87.00	86.00	85.00	5,200
26025 Miniature Bottle	10.80	25.40	72.00	71.00	70.00	5,000
26004 Mixed Large Types	11.40	26.75	75.75	74.75	73.75	2,400
26031 Snake	10.10	23.65	67.00	66.00	65.00	2,600
26027 Speckled Swan	9.85	23.10	65.45	64.45	63.45	2,200
** 15 seeds for \$5.00						







AUTUMN WINGS MEDIUM



AUTUMN WINGS BLEND



GALAXY OF STARS



GIZMO •

Rupp

HOARGARTH 💰

GC	URDS		PEPO	
		•	Days	Features
	26042	Galaxy of Stars FI	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	A mixture of warted gourds with shapes like spoons, pears, and rounds; all warted and very colorful. Very limited supply - call for availability.
	26005	Rupp Small Formula Blend 🍑 🍆	90 - 100	A blend of fancy small types with a few plain varieties. Includes Shenot Crown of Thorns, Rupp Fancy Warted and Small Spoon. Very limited supply - call for availability.
	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=1,00	00 seeds
Priced per package	250 Seeds					
Price per 1,000 seeds (M)		1M	5M	25M	55M	Seeds /lb.
Autumn Wings 26501 Large Swan	9.20	26.25	25.25	24.25	23.25	7,300
Autumn Wings 26501 Large Swan F400	11.30	32.25	31.25	30.25	29.25	7,300
Autumn Wings 26501U Large Swan Untreated	9.20	26.25	25.25	24.25	23.25	7,300
Autumn Wings 26502 Medium	9.20	26.25	25.25	24.25	23.25	8,000
Autumn Wings 26502 Medium F1400	11.30	32.25	31.25	30.25	29.25	8,000
Autumn Wings 26502U Medium Untreated	9.20	26.25	25.25	24.25	23.25	8,000
Autumn Wings 26503 Small	9.20	26.25	25.25	24.25	23.25	7,800
Autumn Wings 26503 Small FI400	11.30	32.25	31.25	30.25	29.25	7,800
Autumn Wings 26503U Small Untreated	9.20	26.25	25.25	24.25	23.25	7,800
Autumn Wings 26510 Blend	9.20	26.25	25.25	24.25	23.25	8,000
Autumn Wings 26510 Blend FI400	11.30	32.25	31.25	30.25	29.25	8,000
26042 Galaxy of Stars	29.80	85.10	84.10	83.10	82.10	10,000
26042 Galaxy of Stars FI400	31.90	91.10	90.10	89.10	88.10	10,000
26042U Galaxy of Stars Untreated	29.80	85.10	84.10	83.10	82.10	10,000

GOU	JRDS PEPO					M=1,0	00 seeds
	Priced per package	250 Seeds					
Pτ	rice per 1,000 seeds (M)		1M	5M	25M	55M	Seeds /lb.
26009	Gizmo FI400	37.15	106.05	105.05	104.05	103.05	6,600
26012	Hoargarth FI400	35.90	102.55	101.55	100.55	99.55	3,500
26026	Rupp Fancy Warted	4.70	13.40	12.40	11.40	10.40	9,400
26026	Rupp Fancy Warted	6.80	19.40	18.40	17.40	16.40	9,400
26026U	Rupp Fancy Warted Untreated	4.70	13.40	12.40	11.40	10.40	9,400
26005	Rupp Small Formula Blend	3.70	10.50	9.50	8.50	7.50	9,300
26005	Rupp Small Formula Blend F400	5.80	16.50	15.50	14.50	13.50	9,300

GOURDS PEPO					M=1,0	00 seeds
Priced per package	1 oz.	4 oz.				
Priced per pound in these package sizes			1#	5#	25#	Seeds /lb.
26043 Lunch Lady	20.10	47.20	137.80	134.80	131.80	3,300
26013 Small Flat Striped	11.60	27.25	79.55	76.55	73.55	9,700
26011 Small Spoon	11.60	27.25	79.55	76.55	73.55	11,000



LUNCH LADY



RUPP FANCY WARTED



RUPP SMALL FORMULA BLEND



FRESH PAK



CELINET



BOLSACHICA

ORDERS OVER \$350 ARE SHIPPED FREE!

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AEROSTAR



TAMARINDO



RED DRAGON NEW



DERONDA



MIZ AMERICA

	Mizuna Japanese Green	Days	Features
49009	Mizuna Japanese Green		
	Mizuna Japanese Green		
1000/		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.
aby Leaf - Be	eet		
14201	Fresh Pak	25 - 35	A perfect choice for baby leaf and spring mix growers. Nice dark green leaves paired with dark red pe ioles 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.
aby Leaf Lett	tuce - Green Leaf		
30107	Celinet		Narrow-cutting surface with good leaf flexibility and attractive leaf fruit.
aby Leaf Lett	tuce - Green Oak Leaf		
30101	Bolsachica		Dark green oak leaf for baby leaf production with full Downy Mildew resistance. Nicely serrated, this 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.
aby Leaf Lett	tuce - Green Romaine		
30102	Aerostar		Mid-size dark green romaine with excellent disease resistance. A dual purpose variety that works we 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.
aby Leaf Lett	tuce - 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.
aby Leaf Lett	tuce - Red Oak Leaf		
30109	Red Dragon		Extremely upright, uniform, cherry-colored variety with good shelf life and field-holding ability.
aby Leaf Lett	tuce - Red Romaine		
30108	Deronda		Dark red variety for baby leaf. Thick-leaved with nice leaf structure. Real romaine shape.
aby Leaf - Mi	ustard		
32100	Miz America Baby Leaf Mustard	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.







POST HARVEST FINANCING AVAILABLE We offer a variety of financing options including 0% interest with no payments due until December 2023. The best rates are available before 12/31/2022.

See page 155 for all of the details on how

to take advantage of this payment option.

JOHN DEERE FINANCIAL

SEASIDE

Mustard

25508 Red Giant Mustard

FIRE FRESH

RED GIANT MUSTARD

GREENS			
	*	Days	Features
Baby Leaf - S	pinach		
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.
Baby Leaf - S	wiss Chard		
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.
Gourmet			
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 Rugola	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.

your gourmet salad mixes. Very pungent when mature.

GREENS			M=1	,000 seeds
	Priced per package	1 oz.	4 oz.	1#
Asian				
49009U Mizuna Jap	anese Green Untreated	3.85	8.65	24.65
49006U Tatsoi Orie	ntal Green Untreated	3.80	8.60	24.50
Gourmet				
25504U Peppergras	ss Cress Untreated	3.00	6.75	19.20
25503U Rocket Aru	gula Rugola Untreated	3.10	7.00	20.00
25507U Sorrel Untreated		6.55	14.85	42.40
25505U Upland Cre	SS Untreated	2.90	6.50	18.50
Mustard				
25508U Red Giant I	Mustard Untreated	4.40	10.00	28.50
P	rice per 1,000 seeds (M)	25M	100M	500M*
Gourmet				
25501 Grazia Wild	l Arugula	0.26	0.20	0.10
P	rice per 1,000 seeds (M)	5M	100M	500M*
Baby Leaf - Beet				
14201 Fresh Pak		0.66	0.60	0.50
Baby Leaf Lettuce - G	reen Leaf			
30107U Celinet Untreate	ed	0.90	0.80	0.70

23 - baby,

45 - full

GREENS			M=1	,000 seeds
	Price per 1,000 seeds (M)	5M	100M	500M*
Baby Leaf Lettuc	e - Green Oak Leaf			
30101U Bolsac	hica Untreated	0.90	0.80	0.70
Baby Leaf Lettuc	e - Green Romaine			
30102U Aerost	ar ^{Untreated}	0.90	0.80	0.70
Baby Leaf Lettuc	e - Red Leaf			
30104U Tamari	ndo ^{Untreated}	0.90	0.80	0.70
Baby Leaf Lettuc	e - Red Oak Leaf			
30109U Red Dr	agon Untreated	0.90	0.80	0.70
Baby Leaf Lettuc	e - Red Romaine			
30108U Derond	da ^{Untreated}	0.90	0.80	0.70
Baby Leaf - Must	ard			
32100 Miz An	nerica	0.42	0.36	0.26
Baby Leaf - Spina	ach			
41006 Seasid	е	0.56	0.50	0.40
Baby Leaf - Swis	s Chard			
43100 Fire Fre	esh	0.64	0.58	0.48
* Multipl	e packages may be used to fill orders	for these quantitie	S.	

Thick, tender, fine flavored savoyed leaves with a purplish red color make this item a fine addition to













ELEONORA

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EMILY

EVERLEAF EMERALD TOWERS

EVERLEAF GENOVESE

GENOVESER

STARO

GROUND CHERRY

^	Features
26500 Aunt Molly's Ground Cherry Husk Tomato	That old, difficult-to-find heritage item cherished in pies, over ice cream, or in fresh fruit salads. The $\frac{1}{2}$ - $\frac{3}{4}$ " 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	500	1,000
	Seeds	Seeds	Seeds
26500U Aunt Molly's Ground Cherry Untreated	4.55	7.00	10.00

ERBS			Pricing on page 6
sil	^	Annual / Perennial	Features
27023	Cinnamon	А	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.
27003	Eleonora	А	Intermediate resistance to downy mildew. Big, lightly serrated leaves. For open field and in pots.
27035	Emily	А	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	А	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	А	The first basil bred for season-long performance and continual harvesting. Flowers up to 8 weeks later than standar 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 downey mildew and resistant to Fusarium.
27033	Genoveser	А	A special, high yielding strain, dark green, cup shaped selection, glossy leaf, recommended for field production.
27012	Italian Large Leaf	Α	Leaves are broad, oval and crinkly with spicy flavor. Used in perfumes, Italian seasonings, and soups.
27017	Lemon	Α	Pleasing citrus aroma, excellent in vinegars or with fish.
27018	Purple	Α	Has a plant with intense purple leaves used for ornamental plantings and seasonings.
27040	Rosie	А	A selection with intensive red color, excellent aroma and quick growing. Recommended for field or greenhouse production.
27030	Siam Queen	А	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.
rage			
27004	Borage	А	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.
27509	Catnip	Р	A vigorous growing mint loved by cats. Grayish green leaves have a strong mint-like flavor.
27005	Chervil	А	The fine cut, deep green leaves look like a delicate, lacy version of parsley. Flavor is a mild anise/parsley and goes we with fish, seafood, eggs or in salads. At its best fresh from the garden.







MARJORAM, SWEET



OREGANO VULGARE



GIGANTE D'ITALIA



SAGE

SUMMER SAVORY

ERBS			Pricing on page
	•	Annual / Perennial	Features
ives			
27510	Garlic	Р	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	Р	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	Р	Extra thick, dark green leaved variety for all growing purposes. Excellent for forcing and pot growing as well as fie production.
riander / C	ilantro		
27002	Calypso	А	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 delicious foliage that can be added to salads, curries and soups.
27013	Santo	А	A fast growing, yet slow bolting strain with very high yield. For Mexican and Oriental cooking. Monogerm seed.
ı			
27007	Bouquet	А	A development from Mammoth Dill. Used in pickles and salad dressings. Adds zest to salads, soups, and vegetable
27516	Green Sleeves	А	A very stable, fast growing, medium fine leafed variety of dark green dill for production of fresh bundles. Strong be resistance. 2 - 2 ½ feet tall.
nnel			
27008	Fennel Florence	А	Anise like flavor is used to flavor eggs, fish and sauces. The celery stems, bulbs and foliage are used fresh or cooked
vender			
27502	Lavender Vera	Р	Great for dried flowers, perfuming linens, and repelling moths. Hardy.
rjoram			
27009	Marjoram ^{Sweet}	А	Used fresh or dried for seasonings in salads, vegetables, meats, soups, eggs, peas and beans.
egano			
27503	Oregano ^{Vulgare}	Р	Purple flowered. Seasons tomato sauces, fish, salad dressings and pizza.
r sley a dditio	onal Parsley on page	: 81	
35012	Gigante d'Italia	Α	A plain, dark green, large leaf sized variety; very aromatic and high yielding with multiple cuts.
ppermint			
27504	Peppermint	Р	Leaves used as mint tea and as a meat garnish. In addition, the mint oil has many other uses.
semary			
27505	Rosemary	Р	Leaves are used in seasoning meats, sauces, and wonderful for potpourri.
ge			
27506	Sage	Р	Most widely used herb. Seasons poultry, sausage, etc.
mmer Savo	ry		
27011	Summer Savory	А	Fresh or dried, used as seasonings in gravies and stews.
yme			
27508	German Winter	Р	Excellent seasoning for soups, i.e. clam chowder, as well as poultry, stews, sauces, pickles and salads.



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SAVE WITH CASH DISCOUNTS

Cash discounts are available throughout the season and are a great way to add money to your bottom line. See page 154 for all of the details. November7% December.....6% January 5% February 4% March 3% April2% POST HARVEST FINANCING AVAILABLE

We offer a variety of financing options including 0% interest with no payments due until December 2023. The best rates are available before 12/31/2022.

See page 155 for all of the details on how to take advantage of this payment option.



		2550					
HER	RBS FOR THE PRO		SIONA	AL		M=1,00	0 seeds
	Price per package/pound	1/4 oz	1 oz.	4 oz.	1#	5#	25#
Basil							
27023U	Cinnamon Untreated	3.10	9.40	27.60	73.50	72.50	
27012U	Italian Large Leaf Untreated	2.75	3.60	10.15	27.00	26.00	25.00
27017U	Lemon Untreated	3.05	9.70	28.50	76.00	75.00	
27018U	Purple Untreated	3.25	10.35	30.40	81.00	80.00	
27030U	Siam Queen Thai Untreated	6.65	21.20	62.25	166.00	165.00	
	Price per 1,000 seeds (M)	1M	5M	25M	100M		
27003	Eleonora	3.55	2.05	0.80	0.30		
27035	Emily	3.55	2.05	0.80	0.30		
27019	Everleaf Emerald Towers	22.00	20.50	19.25	18.75		
27006	Everleaf Genovese	22.00	20.50	19.25	18.75		
27033	Genoveser	3.50	2.00	0.75	0.25		
27040	Rosie	3.60	2.10	0.85	0.35		
Borage	Price per package/pound	1/4 oz	1 oz.	4 oz.	1#	5#	25#
27004U	Borage Untreated	2.80	4.35	12.40	33.00	32.00	
Catnip							
27509U	Catnip Untreated	3.00	7.05	20.65	55.00		
Chervil							
27005U	Chervil Untreated		3.50	8.10	21.50	20.50	
Chives							
27510U	Garlic Untreated	3.50	8.50	24.90	66.35	65.35	64.35
	Price per 1,000 seeds (M)	1M	5M	25M	100M		
27515	Nelly	3.60	2.10	0.85	0.35		
27514	Staro	3.60	2.10	0.85	0.35		

HERBS FOR THE PRO	DFESS	SIONA	AL		M=1,00	0 seeds
	1/4					
Price per package/pound	oz	1 oz.	4 oz.	1#	5#	25#
Coriander / Cilantro						
27002U Calypso Untreated		3.00	3.90	10.25	9.25	8.25
27013 Santo		3.50	5.25	14.00	13.00	12.00
Dill						
27007U Bouquet Untreated		3.50	6.55	17.35	16.35	15.35
Price per 1,000 seeds (M)	1M	5M	25M	100M		
27516 Green Sleeves	3.45	1.95	0.70	0.20		
Fennel						
27008U Fennel Florence Untreated		4.20	12.20	32.50	31.50	
Lavender						
27502U Lavender Vera Untreated	7.30	23.30	68.45	182.50	181.50	
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		5.10	6.95	19.75	18.75	17.75
Peppermint						
27504U Peppermint Untreated	18.20	58.10	170.85	455.50	454.50	
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	
Price per 1,000 seeds (M)	1M	5M	25M	100M		
Thyme	2.52	0.00	0.75	0.05		
27508U German Winter Untreated	3.50	2.00	0.75	0.25		























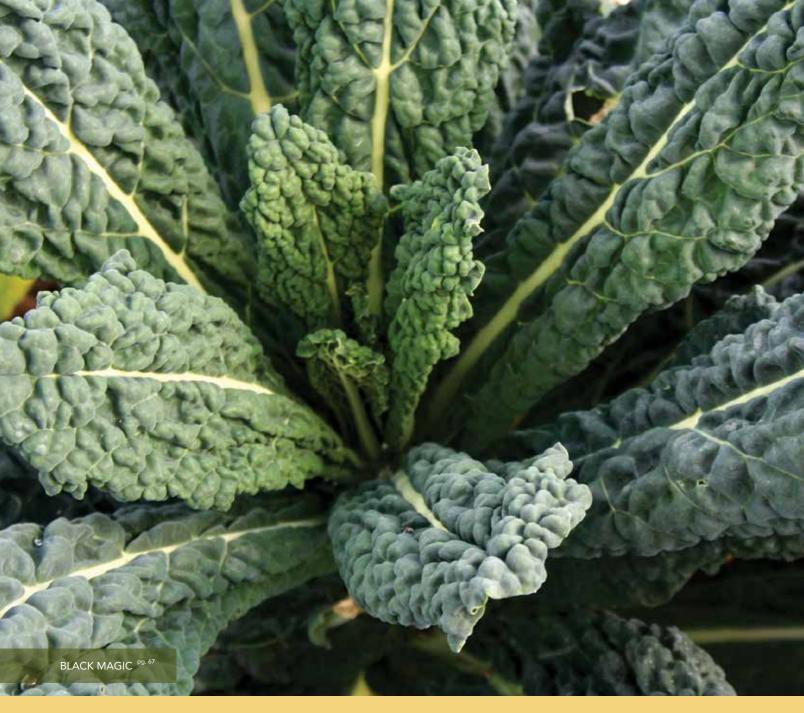












KALE

PLANTING

Plant rows 2' - 3' apart with plants 8" - 16" apart. Seeding rate should be approximately 2 to 4 pounds per acre. Preplant fertilizer should be 60 pounds per acre of nitrogen, 0 - 60 pounds of phosphorus, and 0 - 200 pounds of potassium per acre depending on soil test results.

See "Germination Chart" on page 149 for additional information on germination rate and days to germination at various soil temperatures.

MANAGEMENT

Sidedress 30 - 60 pounds of nitrogen after transplants are established. Use crop rotation to help combat disease pressure. Scout fields for disease, mildew, and insects.

HARVEST

Kale can be harvested three ways: whole plant, bunched leaves, or "stripped" leaves. "Stripped" kale is pre-packaged for fresh market in all methods; yellow or damaged leaves must be removed before packing.

STORAGE

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













BLACK MAGIC

BLUE RIDGE

PIGEON PURPLE PIG

PIGEON RED

PIGEON VICTORIA

PIGEON WHITE

KALE						
	•	Height	Features			
Fresh Market						
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.			
28006	Dwarf Green Curled Afro	12 - 14"	Good uniformity. It handles cold weather extremely well.			
28503	Winterbor F1	18 - 24"	A Vates Blue Curled type with tall stems that allow easier stripping.			
Heritage Vari	eties					
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.			
	•		Features			
Ornamental I	lowering Varieties					
28505	Pigeon Purple Flowering Kale F1					
28506	Pigeon Red 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			
28507	Pigeon Victoria Flowering Kale Fl		colors on the central leaves when the air temperature regularly drops below 55 - 60° F. Plant height 6 - 10 inches.			
28508	Pigeon White Flowering Kale F1		0 - 10 inches.			

KALE			M=1	,000 seeds
Price per 1,000 seeds (M) 1M	5M	25M	100M
28005 Black Magic	3.75	2.70	1.95	1.45
28504 Blue Ridge	10.05	9.00	8.25	7.75
28006U Dwarf Green Curled Afro Untreated	3.75	2.70	1.95	1.45
28503 Winterbor	10.10	9.05	8.30	7.80
Priced per packag	e 4 oz.			
Priced per pound in these package size		1#	5#	25#
28001U Dwarf Blue Curled Scotch Untreated	6.65	15.10	14.60	
28004U Red Russian Untreated	14.50	32.25	31.75	31.50
28002U Siberian Untreated	6.65	15.10	14.60	14.35
Priced per packag		500 Seeds	1,0	000 Seeds
Ornamental Flowering Kale				
28505U Pigeon Purple Flowering Kale	Untreated	13.30		21.00
28506U Pigeon Red Flowering Kale Untrea	13.30		21.00	
28507U Pigeon Victoria Flowering Kale	13.30		21.00	
28508U Pigeon White Flowering Kale	ntreated	13.30		21.00

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KOLIBRI

QUICKSTAR

TADORNA

ALKINDUS

BARILLA

MERIDIAN

B

C

Ξ

G















W

KOHLRAE	ВІ		
	•	Days	Features
Fresh Market			
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.
Heritage Varie	eties		
29501	Early Purple Vienna	60	Reddish-purple colored bulb that is a slightly flattened globe, with tender white flesh.
29502	Early White Vienna	55	Similar in habit to Early Purple Vienna except medium green color.

LEEK				
		•	Days	Features
3	30903	Large American Flag	85	Heritage Variety. Used for flavoring soups. 8 - 10" stems, mild flavor.
3	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
Priced per package		4 oz.		
Priced per pound in these package sizes			1#	5#
29501U Early Purple Vienna Untreated		6.60	17.25	15.75
29502U Early White Vienna Untreated		6.55	17.00	15.50
Price per 1,000 seeds (M)	1M	5M	25M	100M
29001 Grand Duke Improved	5.85	5.30	4.80	4.30
29002 Kolibri	18.30	17.75	17.25	16.75
29004 Quickstar	8.75	8.20	7.70	7.20
29005 Winner Improved	5.95	5.40	4.90	4.40

LEEK			M=1,	000 seeds			
Priced per package		1 oz.	4 oz.	1#			
30903U Large American Flag Untreated		3.60	12.95	34.50			
Price per 1,000 seeds (M)	1M	10M	100M	500M*			
30908P Tadorna Pelleted	5.85	5.60	5.40	5.25			
* Multiple packages may be used to fill orders for these quantities.							













SOMERSET

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BERGAM'S GREEN

NEW RED FIRE RED

RED MIST BREET

N.	TETON	NEV
----	-------	-----

LETTUCE		
	•	Features
Butterhead		
30309	Alkindus Red	A mid-sized variety with beautiful dark red color which is suitable for full season production.
30504	Barilla Green	A medium to dark green, thick-leaved lettuce with a strong base and good volume. It is strong against internal tip- burn and appropriate for late spring and early autumn crops.
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.
30704	Somerset Green	A new summer Iceberg producing a flat round head with smooth ribs and great head protection. Somerset has good tolerance to tipburn and bolting.
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.
NEW 30215	Teton Green	Taller and darker plant for spring and fall harvest. Early maturing and produces large and heavy heads.
Romaine Hear	t	
30203	Arroyo Green	A commercial introduction suitable for carton, fresh market and heart production. Shiny dark green. Broad seasonal adaptability.

LETTUCE EAZY LEAF	M=1,0	00 seeds
Price per 1,000 seeds (M)	1M	10M
30404P Jeanine Pelleted	6.85	5.85

LETTUCE		M=1	,000 seeds
Price per 1,000 seeds (M)	5M	100M	500M
Butterhead			
30309P Alkindus Primed/Pelleted	6.05	5.70	5.45
30504P Barilla Pelleted	4.15	3.80	3.55
Iceberg			
30705P Meridian Pelleted	3.10	2.75	2.50
30704P Somerset Pelleted	3.00	2.65	2.40
Leaf			
30304P Bergam's Green Primed/Pelleted	2.45	2.10	1.85
30016P New Red Fire Pelleted	2.35	2.00	1.75
30016 New Red Fire	1.35	1.00	0.75
30013P Red Mist Pelleted	2.95	2.60	2.35
Romaine			
30214P Breen Pelleted	6.05	5.70	5.45
30215P Teton Pelleted	2.85	2.50	2.25
Romaine Heart			
30203P Arroyo Pelleted	2.75	2.40	2.15































LETTUCE		BUTTERHEAD Heritage Varieties	
	*	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.

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LETTUCE		CRISPHEAD Heritage Varieties
	*	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
	•	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 MTO	Dark green variety used many times on salad bars. Excellent for market or garden.

LETTUCE		ROMAINE Heritage Varieties
	•	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		8.05	19.75	19.25
30502U Buttercrunch Untreated		8.05	19.75	19.25
30510U Merville de 4 Seasons Untreated		7.95	19.50	19.00
30034U Speckles Untreated	6.80	21.65	60.50	60.00
30503U Tom Thumb Untreated		11.10	27.15	26.65

POST HARVEST FINANCING AVAILABLE We offer a variety of financing options including 0% interest with no payments due until December 2023. The best rates are available before 12/31/2022.

See page 155 for all of the details on how to take advantage of this payment option.



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	12.35	35.70	35.20
30701U Iceberg Untreated		7.10	20.50	20.00



SAVE	WITH	CASH	DISCO	UNTS

great way to add money to your

November/%
December6%
January 5%
February 4%
March 3%
April2%

LETTUCE LEAF

Priced per package	1 oz.	4 oz.		
Priced per pound in these package sizes			1#	5#
30004U Black Seeded Simpson Untreated		8.00	19.75	19.25
30001U Chef's Delight Blend Untreated	7.50	19.85	55.50	55.00
30005U Grand Rapids Untreated		7.90	19.50	19.00
30036U Green Deer Tongue Untreated	6.20	16.30	45.50	45.00
30003U Green Ice Untreated	5.35	14.15	39.50	39.00
30025U Lollo Rossa Untreated	6.20	16.30	45.50	45.00
30006U Oak Leaf Untreated		8.00	19.75	19.25
30007U Prizehead Untreated		8.00	19.75	19.25
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		9.55	23.50	23.00
30008U Salad Bowl Untreated		9.35	23.00	22.50
30014U Waldmanns Green Untreated		8.00	19.75	19.25

SAVE WITH CASH DISCOUNTS	November7%
Cash discounts are available	December6%
throughout the season and are a	January 5%

DOLLOIII II	IIC.		
See page	154 for	all of the	e details.

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LETTUCE ROMAINE

Priced per package	1 oz.	4 oz.		
Priced per pound in these package sizes			1#	5#
30202U Cimmaron Red Cos Untreated	4.50	7.45	19.75	19.25
30515U Freckles Untreated	17.75	28.05	79.00	78.50
30201U Paris Island Cos Untreated	4.50	7.50	20.00	19.50

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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

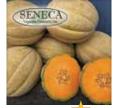
A - Anthracnose DM - Downy Mildew F - Fusarium GSB - Gummy Stem Blight

PM - Powdery Mildew PRSV - Papaya Ring Spot Virus

WMV - Watermelon Mosaic Virus

ZYMV - Zucchini Yellow Mosaic Virus















AFTERGLOW

AMBROSIA

APHRODITE

ASTOUND

ATHENA













ATLANTIS

AVATAR

CLEOPATRA

GODDESS

MINERVA

ORANGE SHERBET

MELONS		CAN	TALOU	PE Hybrid				Pricing on page 75
	•	Days	Fruit Size pounds	Net / Sutures	Flesh Color	Disease	Harvest Indicator	Features
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.
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.
31001	Ambrosia 🕒	86	4	Heavy Net / No Sutures	Salmon	PM	Full Slip	Very sweet home garden variety.
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.
*** 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.
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.
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.
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.
31072	Minerva 🙋	77	7 - 8	Heavy Net / Light Sutures	Orange	F ^{0,1,2} , PM ^{1,2}	Full Slip	A Syngenta melon, similar fruit type to Athena, slightly larger with thick, firm flesh.
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.
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.
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. Produc- tive plant and high Brix.

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.













SOLSTICE

SUGAR RUSH

INFINITE GOLD

SHOCKWAVE

SUN BLUSHED

MELONS CANTALOUPE Hybrid Extended/Long Shelf Life							Pricing on page 75		
		•	Days	Fruit Size pounds	Net / Sutures	Flesh Color	Disease	Harvest Indicator	Features
NI	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 b	78 - 80	5 - 6	Medium Net / No Sutures	Orange	F ⁰⁻ 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.
	31006	Infinite Gold	84	5 - 7	Heavy Net / No Sutures	Deep Orange	F ^{1,2} , PM ²	Clip	This melon has been bred for strong performance and long shelf life, without sacrificing great flavor and fruit quality. Offers strong vines, high yield potential, uniform size and shape.
	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 holdability for a controlled pick. Slips when mature.
	31019	Sun Blushed	82	4 - 6	Heavy Net / Light Sutures	Deep Orange	F ^{0,1} , PM	Clip	Extended shelf life (ESL) western type hybrid with excellent flavor. Firm and attractive flesh with extremely high Brix.
	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.
	31083	Tirreno	83	4-6	Medium Net / Deep Green Sutures	Orange	F ^{1,2,5} , PM ^{1,2,3}	Half Slip	Possesses beautiful firm flesh and offers excellent holding ability. Also has shown tremendous plant health in the field for excellent yield potential. Very good eating quality.

MELONS		MIXED/SPECIALTY Hybrid					
	_	Days	Fruit Size pounds	Net / Sutures	Flesh Color	Disease	Features
31704	Ambassador	76	6 - 8	Heavy Net / Slight Sutures	lvory / Green	F ^{0,1,2} , PM ^{1,2}	Larger than other galia melons with high Brix and enhanced fruit firmness for excellent storage ability. Ideal for main season when great tasting melons are desired.
31011	Earli-Dew 🜔	85	3 - 4	No Net / No Sutures	Lime Green	F	Early Honeydew type. Slips when mature.
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.
31721	Lilly	85	6 - 8	Lightly Corrugated / Smooth	Light Orange	PM ^{1,2}	Very early Crenshaw hybrid with outstanding taste, high Brix (to 17%) and good yields.
31700	Mixed Melon Pak						A trial pack of 10 different melons (50 seeds of each) which includes: all of the mixed/specialty plus some of the best cantaloupe varieties. Varieties are individually labeled and packed.
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.
31733	Sigal	60	6	Corky Net	lvory / Green	PM ^{1,2}	An early, large Galia type melon with superb flavor.
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.
31732	Tweety	70	4 - 6	Wrinkled Skin	lvory / Green	A, F ^{1,2} , GSB	A sweet Canary melon with a small seed cavity and firm flesh. Very early for a Canary.













THUNDERSTRUCK

TIRRENO

AMBASSADOR

SIGAL

MELONS

SUPER NECTAR

TWEETY

GROWER PREFERRED ALL-STARS

These melons continue to be the top performing varieties for growers. If you are looking to add melons to your operation you can't go wrong with these All-Stars.

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!





MELONS CANTALO			M=1,00	00 seeds		
Priced per package Price per 1,000 seeds	100 Seeds	500 Seeds				
(M)			1M	5M	15M*	90M*
31015 Accolade F300	17.90	70.35	100.50	97.40	95.40	94.40

Priced per package	Seeds	Seeds				
Price per 1,000 seeds (M)			1M	5M	15M*	90M*
31015 Accolade F300	17.90	70.35	100.50	97.40	95.40	94.40
31017 Afterglow	12.45	48.85	69.75	66.65	64.65	63.65
31001 Ambrosia F300	14.00	55.00	78.55	75.45	73.45	72.45
31071 Aphrodite F300	16.05	63.00	89.95	86.85	84.85	83.85
31022 Arangina		Call fo	r Current	t Pricing		
31016 Astound F300	17.55	68.95	98.50	95.40	93.40	92.40
31050 Athena F300	16.35	64.35	91.90	88.80	86.80	85.80
31077 Atlantis F300	9.95	39.00	55.65	52.55	50.55	49.55
31084 Avatar F300	12.00	47.20	67.40	64.30	62.30	61.30
31014 Cleopatra	12.45	48.85	69.75	66.65	64.65	63.65
31020 Damaris F300	17.40	68.50	97.80	94.70	92.70	91.70
31075 Goddess	12.05	47.40	67.70	64.60	62.60	61.60
31006 Infinite Gold F300	20.75	81.65	116.60	113.50	111.50	110.50
31072 Minerva F300	14.05	55.30	79.00	75.90	73.90	72.90
31076 Orange Sherbet	9.90	38.95	55.60	52.50	50.50	49.50
31009 Shockwave	14.70	57.50	82.10	79.00	77.00	76.00
31085 Solstice	12.50	49.15	70.20	67.10	65.10	64.10
31018 Sugar Rush	14.05	55.25	78.90	75.80	73.80	72.80
31019 Sun Blushed	13.55	53.30	76.10	73.00	71.00	70.00
31021 Thunderstruck	14.05	55.25	78.90	75.80	73.80	72.80
31083 Tirreno	22.55	88.65	126.60	123.50	121.50	120.50

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

MELONS	MIXED/	SPECIALTY	Uubrid
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Priced per package	100 Seeds	500 Seeds			
Price per 1,000 seeds (M)			1M	5M	15M*
31704 Ambassador	12.95	51.25	73.15	70.05	68.05
31011 Earli-Dew F300	13.80	54.70	78.10	75.00	73.00
31717 Gourmet	15.05	59.65	85.20	82.10	80.10
31721 Lilly	10.55	41.75	59.60	56.50	54.50
31700 Mixed Melon Pak	65.00		For 50 s	seeds	
31709 Passport	10.50	41.55	59.35	56.25	54.25
31733 Sigal	9.65	38.25	54.60	51.50	49.50
31705 Super Nectar	8.80	34.90	49.80	46.70	44.70
31732 Tweety	10.85	43.00	61.40	58.30	56.30
± M 10: 1 1 1	L. CH L	r			

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





VEGETABLE ROOT INOCULANT

Naturall[™] for Vegetables contains proprietary and patent pending biologicals that colonize the root system of plants. Crop stress such as disease and dry

weather can be alleviated, and often systemically, so that root colonization by this treatment can affect the physiology of the whole plant resulting in higher yields. See page 150 for application rates and pricing.

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G

















MELONS		PERS	ONAL S	SIZE Hybrid			
	_	Days	Fruit Size pounds	Net / Sutures	Flesh Color	Disease	Features
31078	Sugar Cube	80	2	Medium Net / Light Sutures	Deep Orange	F ^{0,1,2} , PM ^{1,2} , PRSV, WMV, ZYMV	A personal size melon with deep orange flesh, amazing quality (14% Brix), with excellent shelf life. In addition, has the best disease resistance package. Fruit size is around 4".
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.

Natural

MELONS		OP H	Heritage Va	rieties			
	_	Days	Fruit Size pounds	Net / Sutures	Flesh Color	Disease	Features
Cantaloupe							
31502	Delicious 51	83	4 - 5	Medium Net	Orange		Home garden variety.
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.
Mixed / Spec	Mixed / Specialty						
31511	Honey Dew Green Flesh	110	4 - 6	Smooth Skin	Green		A popular light skinned, green fleshed melon.

MELONS PERSONAL	orid		M=1,0	00 seeds				
Priced per package								
Price per 1,000 seeds (M)			1M	5M	15M*			
31078 Sugar Cube	13.75	54.55	77.90	74.80	72.80			
31727 Tasty Bites	13.25	52.45	74.90	71.80	69.80			
* Multiple packages may be used to fill orders for these quantities.								

MELONS OP					
	Priced per package	1 oz.	4 oz.		
i	Priced per pound in these package sizes			1#	5#
Cantaloupe					
31502U Delicious 51 Untreated		4.80	8.85	23.50	22.50
31503 Hales Best Ju	mbo	5.20	9.60	25.50	24.50
31506U Honey Rock	Intreated	5.20	9.60	25.50	24.50
31508U Iroquois Untreated		4.80	8.85	23.50	22.50
Mixed / Specialty					
31511U Honey Dew C	Green Flesh Untreated	5.55	10.25	27.25	26.25





POST HARVEST FINANCING AVAILABLE

We offer a variety of financing options including 0% interest with no payments due until December 2023. The best rates are available before 12/31/2022.

See page 155 for all of the details on how to take advantage of this payment option.



JAMBALAYA

MUSTARI		•	
	•	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 Vari	eties		
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			
	•	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 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 B	roadleaf ^{Untreated}	7.60	13.50	13.00	12.50
32001U Green Wa	ave Untreated	9.35	16.55	16.05	15.55
32005 Savannah	1	61.35	109.00	108.00	107.00
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 Burg	gundy Untreated		7.65	11.75	11.50
33002U Clen	nson Spineless Untreated		6.05	9.25	9.00
33003U Dwa	orf Long Green Pod Untreated		6.05	9.25	9.00
33009 Jam	balaya	17.15	50.80	160.00	159.00























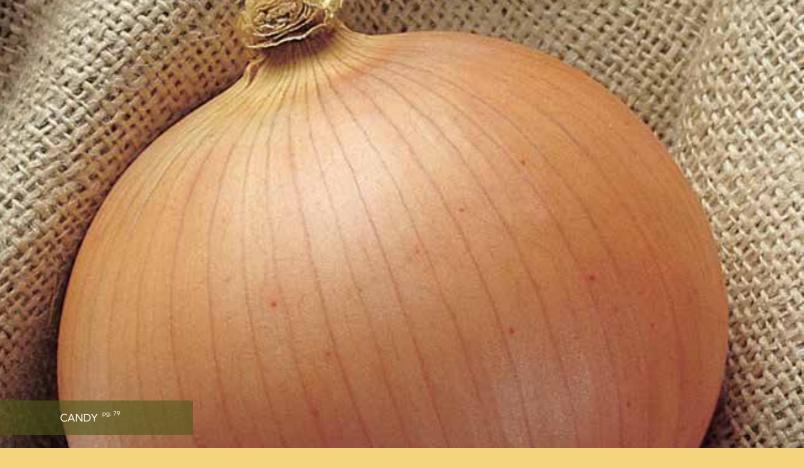












ONIONS

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 1/4" deep and approximately 1/2" apart.

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

Bulb Onions/Intermediate Day - Direct seed intermediate day onions as soon as soil allows in April or early May. Sow seed 2" apart and thin to 3 - 4" apart for larger onions. Seeding depth should be approximately ¼" deep. If

transplanting seed in flats in late February to mid March, tops may be clipped to 5" tall. Use pelleted seed if direct seeding to help achieve better singulation.

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

See "Germination Chart" on page 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 hoophouse also provides good conditions for curing. Temperatures in the 80's will enhance the bronze color in the skins. Sunshine is good as long as it is not too hot. Extreme sun can produce sunscald. Store onions out of the sun; exposure to light after curing will induce greening of outer scales. Optimum temperature for long term storage of onions is 32°F with 65 - 70% humidity. It is important to cool them down slowly. Using cool late summer and fall temperatures works great to cool onions down slowly.



CANDY

SAKATA°









RED CANYON

SPANISH MEDALLION

GENESIS



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GREAT WESTERN



Enhance root growth and increase seedling vigor for healthier plants and higher yields with Naturall™ for Vegetables.

See page 150 for rates and pricing.





ISHIKURA IMPROVED BUNCHING

RED BUNCHING

ONIONS						Pricing on page 80
	•	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.
34004	Great Western F1	110	Yellow	Globe	Short	Can be grown in all intermediate growing areas. Has good firmness with good skin retention. It will cut a high percentage of single centers and can be direct seeded or transplanted. This variety has strong plant growth with sizes that range from colossal to jumbo.
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 Sweet Spanish type 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					
34051	Genesis ^{F1}	100	Yellow	Globe	Medium	An early maturing hybrid that produces uniform globe shaped bulbs with golden brown coloring. Boasts good tolerance to both pink root and fusarium.
34045	Red Defender F1	125	Red	Globe	Long	Very dark red interior and exterior with uniform bulbs. Good for transplanting.
34000	SV4643NT FI	112	Red	Flattened Globe	Long	Bold red colored variety with excellent yield potential. Has both superb interior and exterior color. Stores very well.
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 Oni	ons					
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.









November ... 7%

December ... 6%

January ... 5%

February ... 4%

March ... 3%

April ... 2%



BROOM CORN SORGHUM BLEND

ORNAMENTAL		SOR	SORGHUM / BROOMCORN				
	*	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.				

ONI	ONS	Description	ns on page 79.	M=1,000 seeds
	Price per 1,000 seeds (M)	5M	25M	100M
34020	Candy F300	4.80	4.00	2.95
34020P	Candy F300 Pelleted	5.50	4.55	3.35
34051U	Genesis Untreated	3.70	3.05	2.25
34004	Great Western	5.70	4.75	3.50
34021P	Great White F300 Pelleted	8.05	6.70	4.95
34036	Red Bunching DPS 3047	7.35	6.10	4.50
34016P	Red Canyon F300 Pelleted	7.60	6.30	4.65
34045	Red Defender	5.05	4.20	3.10
34039P	Spanish Medallion Pelleted	6.40	5.30	3.90
34000	SV4643NT F300	6.40	5.30	3.90
	Priced per package	1 oz.	4 oz.	1#
34503	Evergreen White Bunching	6.25	16.50	41.25
34510	Ishikura Improved Bunching	5.70	15.00	37.50
34501	White Sweet Spanish	6.50	17.20	43.00
34502	Yellow Sweet Spanish	6.50	17.20	43.00

ORNAMENTAL	SORGHUM /	BROOMCORN

Priced per package	4 oz.		
Priced per pound in these package sizes		1#	5#
05538U Broom Corn Sorghum Blend Untreated	15.30	44.00	41.50
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			
	•	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			
	*	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 ¾" 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.

PARSLEY					
Priced per package	1 oz.	4 oz.			
Priced per pound in these package sizes			1#	5#	25#
35005U Forest Green Untreated	5.15	7.15	20.35		
35012 Gigante d'Italia	5.10	6.95	19.75	18.75	17.75
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		

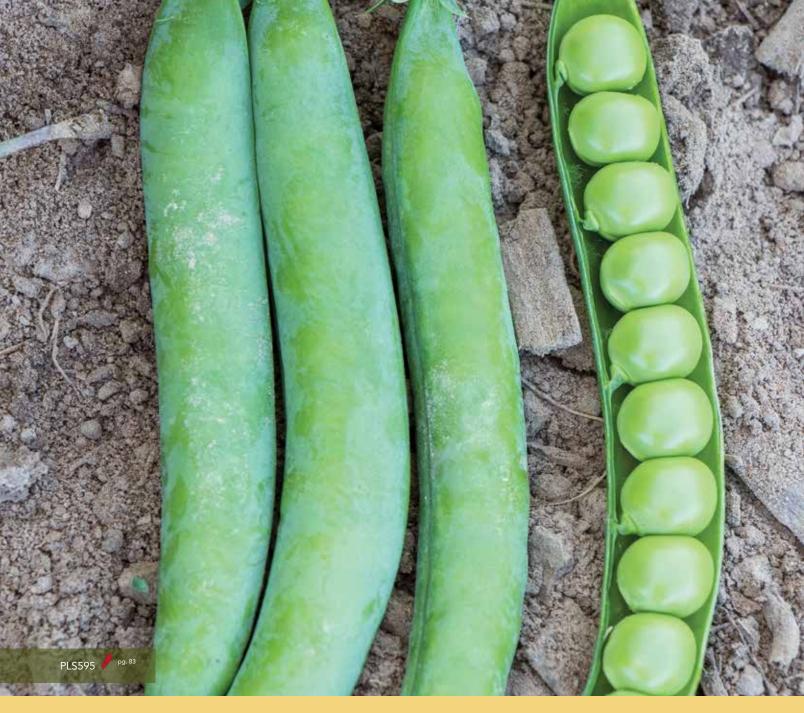
PARSNIPS			M=1,	000 seeds
Priced per package		4 oz.		
Priced per pound in these package sizes			1#	5#
36001U Harris Model Untreated		5.20	14.75	14.50
36002U Hollow Crown Untreated		5.20	14.75	14.50
Price per 1,000 seeds (M)	5M	50M	100M	500M
36005P Javelin Primed, Pelleted	5.20	4.65	4.40	4.05

PEAS SOUTHERN		Descri	ptions on p	age 83
Priced per pound in these package sizes	1#	5#	25#*	50#*
12501U Blackeye Cowpea Untreated	8.35	5.50	5.25	5.00
Mississippi Purple Brown 12514U Crowder Untreated	8.35	5.50	5.25	5.00
Mississippi Silver Brown 12510U Crowder Untreated	8.35	5.50	5.25	5.00
12515U Top Pick Brown Crowder Untreated	8.70	5.75	5.50	5.25
12513U Top Pick Pinkeye Untreated	8.70	5.75	5.50	5.25
* Multiple packages may be used to fill orders t	for these quan	tities.		

PEAS				Desc	riptions or	n page 83
	Priced per pound in these package sizes	1#	5#	25#	50#*	500#*
12021 Bol	lero	6.65	4.40	4.15	3.90	3.80
12009 Ear	rly Frosty	7.05	4.65	4.40	4.15	4.05
12012 Gre	een Arrow	6.95	4.60	4.35	4.10	4.00
12016 Kni	ight	Crop	Failure			
12004 Lax	cton's Progress #9	6.95	4.60	4.35	4.10	4.00
12033 Leg	јасу	6.65	4.40	4.15	3.90	3.80
12011 Lin	coln	7.05	4.65	4.40	4.15	4.05
12007 Litt	le Marvel	7.50	4.95	4.70	4.45	4.35
12003 Ma	estro	Crop	Failure			
12008 PLS	5595	6.75	4.45	4.20	3.95	3.85
12035 Sak	ore	Crop	Failure			
12019 Sp ı	ring	6.65	4.40	4.15	3.90	3.80
12013 Wa	ındo	Crop	Failure			
* Mı	ultiple packages may be used	to fill orders f	or these qua	ntities.		

PEAS SNOW PEA			Descri	ptions on	page 83				
Priced per pound in these package sizes	1#	5#	25#	50#*	500#*				
12104 Mammoth Melting Sugar	7.05	4.65	4.40	4.15	4.05				
12105 Oregon Giant	6.95	4.60	4.35	4.10	4.00				
12102 Oregon Sugar Pod II	7.10	4.70	4.45	4.20	4.10				
* Multiple packages may be used to fill	* Multiple packages may be used to fill orders for these quantities.								

PEAS SUGAR SNAP			Descr	iptions on	page 83				
Priced per pound in these package sizes	1#	5#	25#	50#*	500#*				
12206 Cascadia	6.90	4.55	4.30	4.05	3.95				
12201 Sugar Ann	7.05	4.65	4.40	4.15	4.05				
12202 Sugar Snap	6.90	4.55	4.30	4.05	3.95				
12209 Sugar Sprint	8.25	5.45	5.20	4.95	4.85				
12207 Super Sugar Snap	7.10	4.70	4.45	4.20	4.10				
* Multiple packages may be used to fill orders for these quantities.									



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
Fresh M	Narkot	•	Days	Height	Pod Length	Peas per Pod	Disease	Features
	12021	Bolero PVP	68	29"	3"	7 - 9		High yielding, sweet, medium sized. Excellent for freezer.
	12016	Knight	61	19"	4"	8	MV, PM, W, YM	CROP FAILURE Disease resistant, vigorous.
1	12033	Legacy	67	26"	3 ½"	7 - 9	F, PM	A Bolero replacement, one day earlier with resistance to Powdery Mildew.
1	12003	Maestro	61	18"	4"	9	MV, PM, W, YM	CROP FAILURE Heavy crops, very disease resistant.
1	12008	PLS595	67	30"	3.6"	9 - 10	F, PM	Fresh market or processor. High yields. Great taste.
1	12035	Sabre	65	24"	3 ½"	9 - 10	F, RR, PM	CROP FAILURE Sabre is a normal vine type with long pods. The dark green berries produce wonderful yields - frozen, canned or fresh.
1	12019	Spring PVP	55	22"	3"	6 - 7		Very early, excellent quality, dark green freezer pea.
Heritag	je Vari	eties						
1	12009	Early Frosty	63	28"	3 1/2"	6	W	High yielding and high quality.
1	12012	Green Arrow	68	28"	4"	9 - 11	F, PM	Deep green peas, high pod set, disease resistant.
1	12004	Laxton's Progress #9	62	15"	4 1/2"	7		Leading home garden variety. Fine flavor and quality.
1	12011	Lincoln	67	28"	3 1/2"	7 - 8	W	Older type home garden variety.
1	12007	Little Marvel	63	18"	3 1/2"	7 - 8	W	Fine quality, dwarf plant, dependable variety.
1	12013	Wando	70	19"	3.1"	5 - 6		CROP FAILURE Market or garden.

PEAS		SNO	W PEA Flat Oriental Pricing on page 81
	•	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		SUG	AR SNAP Pricing on page 81
	*	Days	Features
12206	Cascadia	67	A snap pea with 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	60	Earliest and shortest snap pea. 18" vine. 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 Syngenta variety that is similar to Sugar Snap with earlier maturity and better disease package. Is also 6 - 12" shorter than Sugar Snap.

PEAS			THERN Pricing on page 81
	*	Days	Features
Fresh Market			
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 $\frac{1}{2}$ ", 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 Pinkeye's with an upright growth characteristic.
Heritage			
12501	Blackeve Cowpea	68	Blackeye for your home garden, fresh market or processing needs.

































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PEPPERS

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 - Phytopthora Root Rot

PMV - Pepper Mottle Virus

PVY - Potato Virus Y

S - Stip

TEV - Tobacco Etch Virus

TMV - Tobacco Mosaic Virus

TSW - Tomato Spotted Wilt

USE RECOMMENDATIONS

FM - Fresh Market

P - Processing

PP - Place Pack



ARISTOTLE X3R®



BAYONET



MERCER



NINJA S10 X10R







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I	PALADIN	PLAYMAKE	ER X10R®	PS	9928302	X5R®	PS099	P\$1819 X5R® P\$09979325 X5R® RED KNIGHT X3R®
	PEPPERS		BELL	GREE	N TO I	RED Hybrid		Pricing on page 86
		*	Days	Flesh		Disease	Use	Features
	37125	Aristotle X3R*	72	Thick	• ••	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.
	37001	Bayonet	72	Thick	• ••	BLS ^{1,2,3,4,5,7,8,9} , PHY, TMV	FM, PP	A Syngenta hybrid with large blocky fruit. Excellent fruit color, fruit firmness, shoulder appearance, fruit uniformity and wall thickness. High yield potential.
	37006	Big Bertha	70	Thick		TMV	FM	Very large. Popular for home garden use.
	37050	King Arthur	68	Thick	Ú	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 b	72	Thick	•	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.
	37060	Ninja S10 X10R*	75	Medium Thick		TMV, BLS ⁰⁻¹⁰	FM, PP	Widely adapted variety suited where bacterial leaf spot is a concern. Very high yields of extra-large and jumbo fruit with good quality. Fruit are firm, turning from a glossy dark green to a beautiful mature red. The plants are mid strong and vigorous with good fruit setting ability.
	37041	Nitro S10 X10R*	75	Thick	•	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	Ú	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	Ó	BLS ⁰⁻¹⁰ , PHY	FM, PP	First commercial variety with intermediate resistance to BLS 0-10 and phytopthora blight. Bred and developed for the Northeast. Dark green, anthocyaninless fruits. High yield potential.
	37156	PS 9928302 XSR*	75	Thick	Ú	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 XSR*	75	Thick	Ú	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		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	• ••	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.

Additional Bell Peppers can be found on the next page --->.















REGULATOR

SAILFISH X10R®

SPRINTER

PEF	PERS		BELL GREEN TO RED Hybrid					
		•	Days	Days Flesh		Disease	Use	Features
NEW	37048	Redfish X10R®	76	Thick	Ú	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.
	37118	Red Wonder	75	Thick	É	TMV	FM	Especially suited for the bedding plant growers for home garden sales.
	37047	Regulator	73 - 75	Thick	•	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.

	37047	Regulator	73 - 75	Thick	Ú	BLS ¹⁻¹⁰ , TMV	FM, PP	a nigh percentage of four loved 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	Ć	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	•	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	•	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 XSR*	72	Thick	Ć	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 GRE		M=1,0	00 seeds			
Priced per package	100 Seeds	500 Seeds				
Price per 1,000 seeds (M)			1M	5M	25M	50M
37125 Aristotle X3R®F300	16.95	74.90	106.95	99.00	94.25	90.60
37125P Aristotle X3R® F300 Pelleted	17.15	75.85	108.30	100.25	95.45	91.75
37035 Autry	19.70	87.15	124.50	115.25		
37001 Bayonet	12.15	53.55	76.45			
37006 Big Bertha	10.45	46.05	65.75	60.85		
37050 King Arthur	9.70	42.70	60.95	56.40	53.70	51.60
37065 Mercer F300	15.85	70.10	100.10	92.65	88.20	84.80
Ninja S10 X10R® F300 37060P Pelleted	16.10	71.20	101.65	94.10	89.60	86.15
37041 Nitro S10 F300	16.85	74.55	106.50	98.60	93.90	90.25
37089 Paladin	13.40	59.25	84.60	78.30	74.55	71.65
37031 Playmaker X10R®	17.85	78.90	112.65	104.30	99.30	95.45
PS 9928302 XSR® 37156P F300 Pelleted	18.15	80.10	114.40	105.90	100.85	96.95
PS 09941819 37161 X5R® F300	17.30	76.40	109.10	101.00	96.15	92.45
PS 09941819 X5R® 37161P F300 Pelleted	17.50	77.35	110.45	102.25	97.35	93.60

PEPPERS BELL GRE	EPPERS BELL GREEN TO RED Hybrid							
Priced per package	100 Seeds	500 Seeds						
Price per 1,000 seeds (M)			1M	5M	25M	50M		
PS 09979325 X10R* 37010P F300 Pelleted	18.25	80.65	115.20	106.65	101.55	97.60		
37119 Red Knight X3R®	12.25	54.10	77.25	71.50	68.05	65.40		
37048 Redfish		Call fo	r Curren	t Pricing				
37118 Red Wonder	11.25	49.60	70.80	65.55	62.40	60.00		
37118P Red Wonder Pelleted	12.15	53.70	76.70	71.00	67.60	65.00		
37047 Regulator X10R®	17.00	75.05	107.15	99.20	94.45	90.80		
37046 Sailfish X10R®	17.75	78.40	112.00	103.70	98.75	94.95		
37014 Sprinter	54.85	242.65	346.60	320.90	305.60	293.80		
37025 SV3255PB X10R® F300	17.95	79.30	113.25	104.85	99.85	96.00		
37042P Tarpon X10R® F300 Pelleted	18.95	83.80	119.65	110.75	105.45	101.35		
37023 Turnpike XSR®	18.05	79.80	114.00	105.55	100.50	96.60		
* Multiple packages may b	e used to f	ill orders for	these quar	itities.				







Cash discounts are a great way to add to your bottom line. See page 154 for details.

CASH





DICAPRIO

DELIRIO MILENA

PEPPERS		BELL YE	BELL YELLOW Hybrid					
	•	Days	Flesh		Disease	Use	Features	
37015	Abay 🐔	80	Medium Thick	Ú	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	<u></u>	TMV ⁰⁻³ , TSW	FM	Good variety for high tunnels or unheated greenhouses from Enza Zaden.	
37108	Early Sunsation X3R*	70	Thick	Ó	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	É	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	COLO	RS Hybrid		
	•	Days	Days Flesh		Disease	Use	Features
37083	Bianca	66	Thick	Ó	TMV ^o	FM	Bianca means white in Italian. Larger and whiter than competitive varieties. Very early and slow coloring from white to light red. 3 - 4 lobed.
37090	Delirio	68	Thick		TMV^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	• •	PVY, TMV ⁰⁻³ , TSW	FM, PP	Thick walls and uniform 3-4 lobed fruit. Peppers average $\frac{1}{2}$ 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	Ó	TMV ⁰	FM	Larger and better quality than its other lilac competitors. Matures from lilac to a medium red color. 3 - 4 lobe.

PEPPERS BELL YEL			M=1,0	000 seeds						
Priced per package	100 Seeds	500 Seeds								
Price per 1,000 seeds (M)			1M	5M	25M	50M				
37015 Abay	16.45	72.65	103.75	96.05	91.45	87.90				
37034 Dicaprio	77.45	342.55	489.30	453.05	431.45	414.85				
37108 Early Sunsation X3R®	12.05	53.10	75.80	70.15	66.80	64.20				
37045 SVPB8415 X10R*	18.15	80.15	114.45	105.95	100.90	97.00				
* Multiple packages may be used to fill orders for these quantities.										

PEPPERS BELL OT	d	M=1,0	000 seeds			
Priced per package	100 Seeds	500 Seeds				
Price per 1,000 seeds (M)			1M	5M	25M	50M
37083 Bianca	19.65	86.80	124.00	114.80	109.30	105.05
37090 Delirio	17.75	78.40	111.95	103.65	98.70	94.90
37013 Milena	54.70	241.95	345.60	320.00	304.75	293.00
37088 Tequila	20.35	89.95	128.50	118.95	113.25	108.85
* Multiple packages may b	e used to fil	l orders for t	hese quanti	ties.		

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CORNITO ARANCIA

CORNITO GIALLO

CORNITO ROSSO

ORANOS

SWEETIE ORANGE

SWEETIE RED

PEPPERS		BELL	OP Herit	age Variet	ies		
	_	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. 5×7 ".

PEPPERS		MISCEL	MISCELLANEOUS SWEET Hybrid 🖸						
	•	Days	Flesh	Color	Shape	Disease	Features		
Super Sweet	Cones								
37199	Cornito Arancia	80		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		Yellow	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.		
37198	Cornito Rosso	80		Red	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.		
37179	Conical Blend	70	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.		
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.		
Miniature Sw	eet Cones - Snack Pepper	s 🚺							
37190	Sweetie Orange	70 from transplant	Thick	Orange	2 ½ - 3" long				
37194	Sweetie Purple	70 from transplant	Thick	Purple	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		
37191	Sweetie Red	70 from transplant	Thick	Red	2 ½ - 3" long		open field and protected culture.		
37192	Sweetie Yellow	70 from transplant	Thick	Yellow	2 ½ - 3" long				
37193	Sweetie Blend	70 from transplant	Thick	Orange, Purple, Red, Yellow	2 ½ - 3" long		A multi-colored blend of the four Sweetie Peppers. Only available in 100 seed packs.		
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 YELLOW

YELLOW SPARKLER

GROWER PREFERRED ALL-STARS

POST HARVEST FINANCING AVAILABLE

We offer a variety of financing options including 0% interest with no payments due until December 2023. The best rates are available before 12/31/2022.

See page 155 for all of the details on how to take advantage of this payment option.



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

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

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

OTHER COLORED BELLS

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

SWEET BANANAS

SV3782PP X3R® has fruit quality similar to Ethem but it also has resistance to bacterial spot races 0-3, 7 and 8. Fruits 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.





Priced per package	1/2 oz.	1 oz.	4 oz.	1#
37225 Big Red	11.95	17.40	55.20	160.00
37206 California Wonder 300	8.25	12.00	37.95	110.00
37228 Keystone Resistant Giant #3	8.25	12.00	37.95	110.00
37217 Purple Beauty	16.05	23.40	74.20	215.00
37226 Sunbright	16.05	23.40	74.20	215.00

PEP	PERS MISCELLA	NEOU	S SWE	ET Hyb	orid	M=1,000 seeds		
	Priced per package	100 Seeds	500 Seeds					
	Price per 1,000 seeds (M)			1M	5M	25M	50M	
Super	Sweet Cones							
37173	Belcanto	38.85	171.75	245.30				
37199	Cornito Arancia	18.70	82.60	117.95	109.20	104.00	100.00	
37195	Cornito Giallo	12.60	55.55	79.35	73.45	69.95	67.25	
37198	Cornito Rosso	12.60	55.55	79.35	73.45	69.95	67.25	
37179	Conical Blend	27.50						
37174	Oranos	39.50	174.65	249.50	231.00			
Miniat	ure Sweet Cones - Snack Pe	ppers						
37190	Sweetie Orange	28.05	123.90	176.95	163.80	156.00	150.00	
37194	Sweetie Purple	30.70	135.70	193.85	179.45	170.90	164.30	
37191	Sweetie Red	28.05	123.90	176.95	163.80	156.00	150.00	
37192	Sweetie Yellow	28.05	123.90	176.95	163.80	156.00	150.00	
37193	Sweetie Blend Orange, Purple, Red, Yellow	33.95						
37176	Yellow Sparkler	12.80	56.50	80.65	74.65	71.05	68.30	
Miniat	ure Bell							
37105	Baby Block Yellow	17.95	79.30	113.25	104.85	99.85	96.00	
	* Multiple packages may be us	ed to fill or	ders for the	e quantities	:			

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















DUCADO

LOLA

SV3782PP X3R®

PSY PIMIENTO ELITE

PEPPERS		MISC	ELLAN	EOUS Hybr	id	
	•	Days	Flesh	Color	Disease	Features
Banana						
37132	Ducado	65 - 70	Thick	Yellow to Red	BLS, TMV	Smooth, mostly straight fruit with brilliant yellow coloration turning to at full maturity. Used for both fresh market and processing. Ideal where bacterial leaf spot is a concern.
37038	Lola	60 - 65	Thick	Light Green to Red	BLS ^{0·3,7,8} , TSWV	Widely adapted variety well suited where bacterial leaf spot or TSWV a concern. High yield potential of large and extra-large fruit. Plants are medium strong and vigorous with good cover.
37009	PX11404796 X3R®	75	Thick	Light Yellow to Red	BLS ^{1-3, 7,8}	Excellent fruit color, wall thickness and fruit uniformity.
37082	SV3782PP X3R®	70	Thick	Light Yellow to Red	BLS ^{0-3,7,8}	AKA Sweet Sunset, this variety has won the AAS. Used for 2nd early in processing industry.
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 Syngento that out-sizes competing varieties. Continuous setting for a long harves season, $7\frac{1}{2}$ ".
37021	Biscayne	65 - 70	Medium	Light Yellow		Cubanelle-type hybrid for fresh market. Large pendant fruit for frying, 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. Comp to Biscayne, 6 $\frac{1}{2}$ x 2 $\frac{1}{2}$ ".
Pimiento						
37059	Pimiento Elite	72	Thick	Green to Red	TMV	A heart shaped hybrid sweet pepper. Fruit matures from green to red, to sures 3" x 3" and tapers to a blunt end. High yield potential.

Naturall

VEGETABLE ROOT INOCULANT

Naturall[™] for Vegetables contains proprietary and patent pending biologicals that colonize the root system of plants. Crop stress such as disease and dry

weather can be alleviated, and often systemically, so that root colonization by this treatment can affect the physiology of the whole plant resulting in higher yields. See page 150 for application rates and pricing.



SAVE WITH CASH DISCOUNTS

Cash discounts are available throughout the season and are a great way to add money to your bottom line.

See page 154 for all of the details.

 November
 .7%

 December
 .6%

 January
 .5%

 February
 .4%

 March
 .3%

 April
 .2%

PEPPERS	MISC	MISCELLANEOUS OP Heritage Varieties					
	•	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 bell (1 $\frac{1}{4}$ " x 1 $\frac{1}{4}$ ") 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 MISCELLA	d		M=1,00	00 seeds		
Priced per package	100 Seeds	500 Seeds				
Price per 1,000 seeds (M)			1M	5M	25M	50M
Banana						
37132 Ducado	9.25	40.85	58.35	54.00	51.40	49.40
37038 Lola	11.65	51.35	73.35	67.90	64.65	62.15
37098 Pageant	7.80	34.30	49.00	45.35	43.15	
37009 PX11404796 X3R*	11.65	51.45	73.45	68.00	64.75	62.25
37166 Sopron	9.45	41.80	59.70	55.25	52.60	50.55
37082 SV3782PP X3R®	12.35	54.60	77.95	72.15	68.70	66.05
Cherry						
37120 Cherry Pick	10.30	45.50	64.95	60.10	57.20	55.00
Cubanelle						
37072 Aruba	11.20	49.50	70.70	65.45	62.30	59.90
37021 Biscayne	9.30	41.10	58.65	54.30	51.70	49.70
37005 Gypsy	7.85	34.65	49.50	45.80	43.60	41.90
37123 Key West X3R*	14.65	64.65	92.35	85.50	81.40	78.25
Pimiento						
37059 Pimiento Elite	7.50	33.05	47.15	43.65	41.55	39.95
* Multiple packages may be	used to fill or	ders for thes	e quantitie	·S.		

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PEPPERS MISCELLAN	eties							
Priced per package	250 Seeds	500 Seeds		M=1,0	00 seeds			
Price per 1,000 seeds (M)			1M	5M	50M			
37316 Red Baby Bell	5.50	7.45	9.90	6.60	5.50			
Priced per package	1/2 oz.	1 oz.	4 oz.					
Priced per pound in these package sizes				1#	5#			
37216 Cubanelle	7.55	10.90	34.60	100.20	98.00			
37209 Sweet Banana	6.15	8.90	28.25	81.80	80.00			
37212 Sweet Cherry	8.50	12.25	38.80	112.45	110.00			
* Multiple packages may be used to fill orders for these quantities.								





HOT PEPPER TYPES

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. Many different varieties abound. 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.

CHINESE

(Habanero-Scotch Bonnet- Bahamian-Jamacian) 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 most other pepper types.

GHOST

Subconical to conical shape measuring 2.5 to 3.5 inches in length. Approximately three times hotter than typical habaneros. Red is the most common color at maturity, with orange, yellow and chocolate as rarer varieties.

JALAPEÑO

Fruit are thick walled, conical shaped, dark green when immature 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

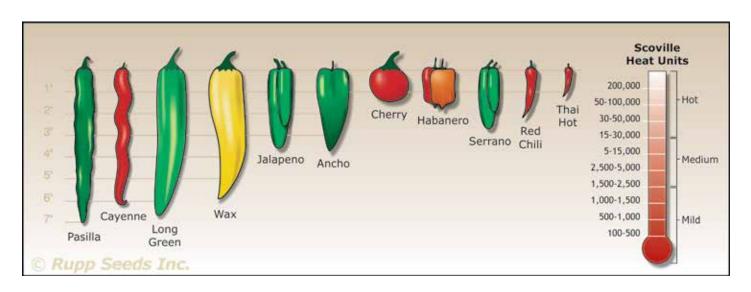
SPITFIRE

CARRANZA

SAN ARDO

SARGENTO

TIBURON	1
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PEPPERS		НОТ	Hybrid					Pricing on pages 95		
Anaheim	•	Days	Flesh	Color	Relative Scoville Rating	Disease	Use	Features		
37412	Charger	75	Thick	Green to Deep Red	1,000 to 2,000	TSW	FM	The leader in Anaheims with large, smooth, two lobed fruit. Vigorous, erect plant with excellent foliage cover protecting the fruit.		
37462	Spitfire			Green to Red	90 to 130	PHY	FM	Only known Anaheim hybrid with phytopthora resistance. Large fruit size.		
Ancho										
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 great choice for ancho producers. 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 (chile rellenos) 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.		

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Additional Hot Peppers can be found on the next page --->.













ARAPAHO

Seminis

BOMBITA

TIME BOMB

KABAL

REY PAKAL

BLAZING BANANA















INFERNO

JEDI

MAMMOTH

PS11435810

SV3198HJ X3R®

SV8066HJ X3R®























PEP	PERS		НОТ	Hybrid					Pricing on pages 95			
Hot C	Cherry	^	Days	Flesh	Color	Relative Scoville Rating	Disease	Use	Features			
	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.			
Haba	nero											
	37423	Kabal	95	Thin	Green to Orange	300,000		FM	High yielding variety with a vigorous, healthy plant that has a continuous set throughout har- vest. Fruit average 1.5 - 2 inches in length with typical habanero shape.			
	37432	Rey Pakal	135	Thin	Green to Red	200,000	CMV	FM	Vigorous plant that provides for prolonged, high yielding harvests. Demonstrates the ability to reach full maturity with exposure to less than optimal heat units.			
Hot V	Vax											
	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.			
Jalap	eño											
	37476	Jedi	70-75	Thick	Dark Green	2,500 to 3,600	BLS ^{1,2,3}	FM, P	Jedi combines jumbo fruit size with main season maturity while exhibiting outstanding quality and exceptional yield. The fruits are firm and very uniform, showing excellent tolerance to checking / cracking.			
*	37448	Mammoth	72	Very Thick	Dark Green	3,000 to 5,000	PVY, TMV	FM, P	Produces high quality, uniform, dark green fruit making it ideal for fresh and processing. Truly "mammoth" in size, this jumbo 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.			







POST HARVEST FINANCING AVAILABLE We offer a variety of financing options including 0% interest with no payments due until December 2023.

The best rates are available before 12/31/2022. See page 155 for all of the details on how to take advantage of this payment option.



TALON

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IZOIZIL

PEPPERS	НС	DT Hybrid					Pricing on pages 95
▲ Jalapeño continued	Days	s Flesh	Color	Relative Scoville Rating	Disease	Use	Features
37410 SV3198	SHJ ^{X3R®} 68	Thick	Dark Green to Red	750 to 1,000	BLS ^{0,3,7,8}	FM, P	Hot nacho jalapeno with concentrated set of long, cylindrical fruit. Slow to check.
37419 SV806 6	ohj ^{x3r®} 74	Thick	Dark Green to Red	0	BLS 0-3, 7,8	FM, P	Offers jalapeno flavor with no heat. Great for blending with hot jalapenos to customize heat level of salsa or hot sauce.
37451 Talon	75-8	30 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.
NEW 37479 Trickste	r 75	Thick	Dark Green to Red	0	BLS ^{1,2,3}	FM, P	A new hybrid No-Heat Jalapeno. Extra large, thick walls, uniform cylindrical fruit on a medium to large plant.
37430 Tzotzil	60	Very Thick	Dark Green to Red	750 to 1,000	BLS ^{0,3,7,8} , PHY	FM, P	Phytopthora tolerant version of PS 11435810. Fruit may be a little longer and slightly more narrow than the 5810.
							Additional Hot Peppers can be found on the next page>.

PEPPERS HOT Hybri	d				M=1,0	00 seeds
Priced per package	100 Seeds	500 Seeds				
Price per 1,000 seeds (M)			1M	5M	25M	50M
Anaheim						
37412 Charger	14.30	63.25	90.30	83.60	79.60	76.50
37462 Spitfire	11.10	49.10	70.10	64.90	61.80	59.40
Ancho						
37463 Carranza	10.05	44.35	63.30	58.60	55.80	53.65
37447 San Ardo	8.60	38.05	54.30	50.25	47.85	46.00
37457 Sargento	10.75	47.40	67.70	62.65	59.65	57.35
37455 Tiburon F300	7.45	32.90	46.95	43.45	41.35	39.75
37425 Trident F300	10.40	46.00	65.65	60.75	57.85	55.60
Cayenne						
37458 Arapaho Cheyenne	10.60	46.90	66.95	61.95	59.00	56.70
37413 Mesilla	10.45	46.05	65.75	60.85	57.95	55.70
Hot Cherry						
37467 Bombita	15.25	67.35	96.20	89.05	84.80	81.50
37417 Time Bomb	13.30	58.70	83.85	77.60	73.90	71.05
Habanero						
37423 Kabal	12.15	53.70	76.70	71.00	67.60	65.00
37432 Rey Pakal	12.15	53.70	76.70	71.00	67.60	65.00
37466 Rey Kawiil USAP 10074	12.15	53.70	76.70	71.00	67.60	65.00

PEPPERS HOT Hybri	d				M=1,0	00 seeds
Priced per package	100 Seeds	500 Seeds				
Price per 1,000 seeds (M)			1M	5M	25M	50M
Hot Wax						
37422 Blazing Banana	11.25	49.60	70.80	65.55	62.40	60.00
37408 Inferno	10.40	45.90	65.55	60.65	57.75	55.50
Jalapeño						
37436 Ballpark	7.80	34.35	49.05	45.40	43.20	41.50
37460 Compadre	10.05	44.25	63.15			
37476 Jedi	11.15	49.15	70.20	65.00	61.90	59.50
37448 Mammoth	11.15	49.15	70.20	65.00	61.90	59.50
37401 PS 11435810	11.40	50.30	71.85	66.50	63.30	60.85
37410 SV3198HJ X3R®	11.25	49.70	70.95	65.65	62.50	60.05
37419 SV8066HJ X3R®	12.80	56.60	80.85	74.85	71.25	68.50
37451 Talon	11.15	49.15	70.20	65.00	61.90	59.50
37479 Trickster	10.30	45.50	64.95	60.10	57.20	55.00
37430 Tzotzil F300	10.70	47.20	67.40	62.40	59.40	57.10











































BECAN

CRACKLE

POTOSI

SUPER CHILI

ILI TAKARA

P	EPPERS		НОТ	Hybrid					
N	liscellaneous	▲ : Hot	Days	Flesh	Color	Relative Scoville Rating	Disease	Use	Features
	37464	Becan	68		Pale Yellow to Red	800 to 1,000	PHY	FM	Santa Fe Grande type hybrid which is used mainly for stuffing. Phytopthora tolerant conver- sion of Rio de Oro.
	37421	Crackle	65	Thin	Green to Red	1,500 to 3,000		FM	"Finger Hot" type with length of 4 - 5 inches. Multiple harvests with fruit maintaining good size.
	37465	Potosi				4,000 to 4,500	BLS ^{0-3,7,8} , N, TMV	FM	A hybrid Serrano type with large fruit size and classic shape. Very productive.
	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 Hybri	PEPPERS HOT Hybrid M=1,000 seeds										
Priced per package	100 Seeds	500 Seeds									
Price per 1,000 seeds (M)			1M	5M	25M	50M					
Miscellaneous Hot											
37464 Becan	14.95	66.05	94.30	87.30	83.10	79.90					
37421 Crackle	7.95	35.05	50.05	46.30	44.05	42.35					
37465 Potosi	9.80	43.20	61.65	57.05	54.30	52.20					
37402 Super Chili	9.50	41.95	59.90	55.45	52.80	50.75					
37420 Takara	11.50	50.80	72.55	67.15	63.95	61.45					
* Multiple packages may be	used to fill o	rders for th	ese quantit	ies.							

Natural

VEGETABLE ROOT INOCULANT

Naturall[™] for Vegetables contains proprietary and patent pending biologicals that colonize the root system of plants. Crop stress such as disease and dry

weather can be alleviated, and often systemically, so that root colonization by this treatment can affect the physiology of the whole plant resulting in higher yields. See page 150 for application rates and pricing.



SAVE WITH CASH DISCOUNTS

Cash discounts are available throughout the season and are a great way to add money to your bottom line.

See page 154 for all of the details.

 November
 .7%

 December
 .6%

 January
 .5%

 February
 .4%

 March
 .3%

 April
 .2%

PEPPERS		НОТ	OP Herita	age Varieties				
	•	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	Р	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 scar- let 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 $\frac{1}{2}$ - 2" diameter fruit.
37505	Jalapeno M	73	Thick	Green to Red	Jalapeno	3,500 to 6,000	FM, P	Uniform, 3 ½" fruit. Pungent for processing and market.
37512	Red Cherry Large	75	Medium Thick	Medium Green to Red	Cherry	3,500	FM, P	CROP FAILURE 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 ½ in. long, medium thick walls, green to red, very pungent.

PEPPERS HOT OP Heritage Varie	eties		M=1,0	=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 Large	Crop	Failure			
37509 Serrano	6.20	9.00	28.00	81.10	

PEPF	PERS HOT OP Heritaç	ge Variet	ies	M=1,000 seed:			
	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 Untreated	7.55	10.25	13.65	9.10	7.55	
37515	Pasilla Bajio	7.75	10.50	13.95	9.30		
37531	Serrano Tampiqueno	6.95	9.45	12.60	8.40	7.00	
	* Multiple packages may be used t	o fill orders f	or these qua	ntities.			

































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 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 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.

POWDERY MILDEW RATINGS

HR - High Resistance IR - Intermediate Resistance T - Tolerant

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 even 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.

PLANT SPACING (CONTINUED)

- 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										
	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							





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MONSTER SMASH WORLD OF COLOR

VEGETABLE ROOT INOCULANT

Naturall[™] for Vegetables contains proprietary and patent pending biologicals that colonize the root system of plants. Crop stress such as disease and dry

weather can be alleviated, and often systemically, so that root colonization by this treatment can affect the physiology of the whole plant resulting in higher yields. See page 150 for application rates and pricing.

GROWER PREFERRED ALL-STARS

GROWER PREFERRED ALL-STARS

XTRA LARGE

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

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.

SMALL / PIE

PUMPKINS

Bisbee Gold's heavy ribbing, dark orange fruit and black handle make it a standout variety. The heavy yield of 6-7 lb. fruit along with Bisbee Gold's strong powdery mildew resistance make it a must have.

Prankster is a 3-5 lb. PMR 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,

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.

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.

Barry Rupp Vegetable Consultant



		Days	Weight pounds	Skin	Vine	Spacing Category	Features
38501	Dill's Atlantic Giant PVP	120	100 - 600	Orange	Very Large	1	Produces giant show pumpkins.
38092	Monster Smash ^{FI} ™	120	50 - 150	Bright Orange	Very Large	1	Complete with slightly flattened/round fruit with moderately defined ribbing, this Rupp release is targeted for those growers who want to enhance their already existing Rupp "Gold Series" pumpkin line. Without question, a Rupp giant pumpkin that is sure to be a "smashing" success!
38007	Prizewinner 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=1,00	00 seeds
Priced per package	1 oz.	4 oz.			
Priced per pound in these package sizes			1#	5#	Seeds /lb.
38501 Dill's Atlantic Giant	17.00	44.65	134.25	131.25	1,400

PUMPKINS GIANT					M=1,00	00 seeds
Priced per package	25 Seeds	100 Seeds	250 Seeds			
Price per 1,000 seeds (M)				1M	3M	Seeds /lb.
38092 Monster Smash		60.80	112.55	300.05	296.80	2,900
38007 Prizewinner FI400	28.70	95.60	177.00	471.90	468.65	1,300
38074 World of Color Blend		64.00	118.45	315.80	312.55	1,200







































BELLATRIX

CAPTAIN JACK

EARLY CAPTAIN NEW

GILTEDGE GOLD

GOLD MEDAL

PUN	/IPKIN	IS	XTR	A LAR	GE					
		•	Days	Weight pounds	Skin	Powdery Mildew	Vine	Spacing Category	Bin Count	Features
	38060	Bellatrix F1	95	25+	Orange	IR	Large Vine	1 or 2	35	Large, round, attractive orange pumpkin with a strong, dark green handle.
	38551	Captain Jack F1	105	30+	Dark Orange		Large Vine	1 or 2	30	A variety from Sakata that has thick flesh and a flat bottom to help fruit stand straight under its heavy weight. Also has large embedded handle.
NEW	38130	Early Captain 🍅	90	30 - 40	Dark Orange	IR	Large Vine	1 or 2	15 - 25	Early Captain is a extra large dark orange upright pumpkin that has Powdery Mildew tolerance with a very large handle. It does need space to make size.
*	38009	Early Giant FI	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 F1	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 RPX 6879 F1	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 FI	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 FI 🎷 🍆	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 FI	110	27	Orange		Vine	2	35	A Rupp pumpkin hybrid with round to slightly flattened fruit.
	38500	Jumpin Jack ™ 🌈	120	20 - 40	Orange		Large Very Vigorous	1 or 2	30	A Rupp exclusive. Very large, well handled, taller than wide variety.
	38090	Large Marge ^{F1}	105	30 - 40	Dark Orange		Vine	1 or 2	30	A new, 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	Ol 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 pumpkin from Siegers. Tall with a thick handle.
	38117	Quigley Gold RPX 6883 F1 🎷 🍏	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 FI	100	25	Deep Orange		Medium	2	35	A Rupp hybrid that has performed very well on the farm. Has excellent color, handles and yields. U.S. Patent #5,811,642.







GOLD RUSH



LARGE MARGE



OL ZEB'S



PHAT JACK



QUIGLEY GOLD



SOLID GOLD

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20 KARAT GOLD



BANNACK GOLD



BAYHORSE GOLD



GOLD



PUMPKINS XTRA LAR	GE			M=1,	000 seeds
Priced per package	250 Seeds				
Price per 1,000 seeds (M)		1M	3M	25M	100M
38060 Bellatrix FI400	34.95	93.20	89.95	87.45	86.15
38551 Captain Jack FI400	36.80	98.05	94.80	92.30	91.00
38130 Early Captain	34.25	91.25	88.00	85.50	84.20
38009 Early Giant FI400	33.40	89.05	85.80	83.30	82.00
38011 Early King FI400	33.80	90.05	86.80	84.30	83.00
38123 Giltedge Gold FI400	41.55	110.75	107.50	105.00	103.70
38050 Gold Medal	22.55	60.05	56.80	54.30	53.00
38050 Gold Medal F1400	24.80	66.05	62.80	60.30	59.00
38050U Gold Medal Untreated	22.55	60.05	56.80	54.30	53.00
38071 Gold Medallion	17.55	46.75	43.50	41.00	39.70
38071 Gold Medallion FI400	19.80	52.75	49.50	47.00	45.70
·					

PUMPKINS XTRA LAR	GE			M=1,	000 seeds
Priced per package	250 Seeds				
Price per 1,000 seeds (M)		1M	3М	25M	100M
38523 Gold Rush	12.85	34.20	30.95	28.45	27.15
38523 Gold Rush FI400	15.10	40.20	36.95	34.45	33.15
38090 Large Marge FI400	36.80	98.05	94.80	92.30	91.00
38117 Quigley Gold FI400	42.05	112.05	108.80	106.30	105.00
38085 Solid Gold	28.45	75.80	72.55	70.05	68.75
38085 Solid Gold FI400	30.70	81.80	78.55	76.05	74.75
Priced per package	1 oz.	4 oz.			
Priced per pound in these package sizes			1#	5#	25#
38024 Gold Strike	8.95	26.50	81.45	78.45	76.45
38500 Jumpin' Jack ™	7.80	23.00	70.65	67.65	65.65
38537 Ol Zeb's	6.90	20.35	62.55	59.55	57.55
38072 Phat Jack FI400	14.75	43.70	134.40	131.40	129.40

PUMPKIN	IS	LAR	LARGE Pricing on							
•			Weight pounds	Skin	Powdery Mildew	Vine	Spacing Category	Bin Count	Features	
38068	20 Karat Gold 11 🌃 🖔	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 RPX 6208 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 FI 🎷 🏷	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 FI 🎷 🏷	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.	
									Additional Large Pumpkins can be found on the next page>.	













EAGLE CITY GOLD

GARNET GOLD

GOLD CHALLENGER

GOLD GEM

ORANGE RAVE

WOLF

PUI	MPKIN	IS	LAR	GE						
		•	Days	Weight pounds	Skin	Powdery Mildew	Vine	Spacing Category	Bin Count	Features
	38062	Eagle City Gold FI	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 RPX 6209 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.
	38051	Gold Gem F1 🎷	105	22	Orange		Large	2	35	A Rupp hybrid pumpkin with excellent fruit color, and the right size for the shipper market; about 4 lbs smaller and darker orange than Howden.
	38001	Orange Rave ^티	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=1,0	000 seeds
Priced per package	250 Seeds				
Price per 1,000 seeds (M)		1M	3M	25M	100M
38068 20 Karat Gold	21.85	58.15	54.90	52.40	51.10
38068 20 Karat Gold FI400	24.10	64.15	60.90	58.40	57.10
38112 Bannack Gold FI400	40.40	107.70	104.45	101.95	100.65
38061 Bayhorse Gold FI400	40.25	107.25	104.00	101.50	100.20
38069 Carbonado Gold FI400	41.40	110.30	107.05	104.55	103.25
38062 Eagle City Gold FI400	36.95	98.50	95.25	92.75	91.45
38113 Garnet Gold FI400	40.40	107.70	104.45	101.95	100.65
38073 Gold Challenger	23.10	61.60	58.35	55.85	54.55
38073 Gold Challenger FI400	25.35	67.60	64.35	61.85	60.55
38001 Orange Rave FI400	35.50	94.55	91.30	88.80	87.50
Priced per package	1 oz.	4 oz.			
Priced per pound in these package sizes			1#	5#	25#
38051 Gold Gem	8.85	26.10	80.20	77.20	75.20
38550 Wolf FI400	19.20	56.80	174.65	171.65	169.65

PUMPKINS MID SIZE					M=1,00	0 seeds
Priced per package	250 Seeds					
Price per 1,000 seeds (M)		1M	зм	25M	100M	Seeds /lb.
38045 Gold Standard	14.30	38.05	34.80	32.30	31.00	3,100
38045 Gold Standard FI400	16.55	44.05	40.80	38.30	37.00	3,100
38045U Gold Standard Untreated	14.30	38.05	34.80	32.30	31.00	3,200
38019 Jack of All Trades	16.90	45.00	41.75	39.25	37.95	3,800
38056 Neon	21.10	56.20	52.95	50.45	49.15	3,800
38034 Secretariat FI400	32.85	87.55	84.30	81.80	80.50	3,000
38076 Skidoo Gold F1400	34.70	92.45	89.20	86.70	85.40	2,800

CURIOUS ABOUT THE NAMES OF OUR PUMPKINS?

Montana's gold rush started in 1863 at Bannack – check it out and read about Montana's mining history and view photos.

www.ruppseeds.com/PName







NEON





SKIDOO GOLD

GROW YOUR BEST PUMPKINS YET!



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

www.ruppseeds.com/PumpkinGuide

P	UMPKIN	IS	MID	MID SIZE							
		*	Days	Diameter Height	Weight pounds	Skin	Powdery Mildew	Vine	Spacing Category	Bin Count	Features
7	38045	Gold Standard FI 🎷 🍆	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 FI	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.
7	38076	Skidoo Gold FI 🎷 🏷	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 in the same weight class.

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.

/ariety	Planting Date: May 1	Planting Date: May 15	Planting Date: June 1	Planting Date: June 15	Planting Date: July 1
Maturity	Harvest Range	Harvest Range	Harvest Range	Harvest Range	Harvest Range
30	July 10 - July 30	July 24 - Aug. 13	Aug. 10 - Aug. 30	Aug. 24 - Sept. 13	Sept. 9 - Sept. 29
35	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.

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BISBEE GOLD

DARLING

JACK SPRAT

PIK-A-PIE

PRANKSTER

PUI	MPKIN	IS	SMA	ALL / PIE						
		•	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!
	38020	Darling ^{FI}	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 RPX 6875	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 FI	100	5" x 6"	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 FI 🌈 🍏	85	6 x 5"	5 - 6	Orange		Semi Bush	3	Produces uniform fruit with a large, dark green handle. Yields an abundance of excel- lent quality pumpkins.
*	38067	Prankster FI 6	85	6 x 4"	3	Dark Orange	IR	Semi Bush	3	An excellent stemmed powdery mildew toler- ant 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 FI	95	6 x 5"	2 1/4	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.
A	38116	Yosemite RPX 6880 🍞 🍆	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 / P				M=1,000	n accela	
I OWN KING SWALL / I	250				IVI = 1,000) seeds
Priced per package	seed					
Price per 1,000 seeds (M)		1M	3M	25M	100M	Seeds /lb.
38075 Bisbee Gold FI400	36.95	98.50	95.25	92.75	91.45	3,100
38020 Darling FI400	34.25	91.30	88.05	85.55	84.25	4,100
38115 Fort Knox FI400	37.60	100.20	96.95	94.45	93.15	2,500
38003 Jack Sprat FI400	33.55	89.40	86.15	83.65	82.35	5,800
38038 Pik-A-Pie	15.70	41.80	38.55	36.05	34.75	3,800
38038 Pik-A-Pie FI400	17.95	47.80	44.55	42.05	40.75	3,700
38038U Pik-A-Pie Untreated	15.70	41.80	38.55	36.05	34.75	3,800
38067 Prankster FI400	23.20	61.80	58.55	56.05	54.75	3,400
38047 Touch of Autumn	11.35	30.25	27.00	24.50	23.20	5,500

PUMPKINS SMALL / P	IE				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 FI400	13.60	36.25	33.00	30.50	29.20	5,500
38047U Touch of Autumn Untreated	11.35	30.25	27.00	24.50	23.20	5,500
38116 Yosemite FI400	35.60	94.90	91.65	89.15	87.85	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	5.20	15.30	47.00	44.00	42.00	3,700













TOUCH OF AUTUMN

YOSEMITE 🗸

GOLD DUST

GOLD SPECK

JACK-B-QUIK

PUMPKIN	NS .	MIN	IIATURE						
	•	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"	1/4	Orange/ Green		Semi Bush	4	A unique orange and dark green colored pumpkin when harvested early to full orange color at maturity.
38066	Gold Dust FI (65								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. The strain that growers prefer. Pary in shape, color, and size. We ask that you
★ 38077	Gold Speck FI 🍎 🍆	sign th	he "Gold Du 3 x 2"	est Agreem	ent" on pag Orange	e 165. Prici IR	<i>ng has beer</i> Bush	1 adjusted f	or this current seed lot. A Rupp sister bush hybrid to Gold Dust, with similar vine and fruit characteristics, but smaller than Jack-B-Quik and Munchkin. Most fruit set close to the crown early and escape virus flecking. Our highest yielding Jack-B-Little type. The strain that growers prefer.
38525	Jack-B-Quik 🕜	95	3 x 2"	1/4	Orange		Medium	4	A more ribbed mini with taller and darker orange fruit.

PUMPKINS N	11NIATURE				M=1,00	0 seeds
Priced pe	250 er package seed					
Price per 1	000 seeds (M)	1M	3M	25M	100M	Seeds /lb.
38531 Baby Bear	11.20	29.85	26.60	24.10	22.80	3,700
38066 Gold Dust	17.75	47.30	44.05	41.55	40.25	6,600
38066 Gold Dust F4	20.00	53.30	50.05	47.55	46.25	6,600
38066U Gold Dust Ur	treated 17.75	47.30	44.05	41.55	40.25	6,700
38077 Gold Speck	22.05	58.70	55.45	52.95	51.65	7,000
38077 Gold Speck	FI400 24.30	64.70	61.45	58.95	57.65	7,000
38077U Gold Speck	Untreated 22.05	58.70	55.45	52.95	51.65	7,000
38042 Orangita FI401	28.45	75.75	72.50	70.00	68.70	6,500
38043 Spark	34.45	91.80	88.55	86.05	84.75	5,900

PUN	1PKINS MINIAT	URE				M=1,00	0 seeds
	Priced per package	250 seed					
	Price per 1,000 seeds (M)		1M	зм	25M	100M	Seeds /lb.
38538	Wee-B-Little	11.40	30.35	27.10	24.60	23.30	5,500
38538	Wee-B-Little FI400	13.65	36.35	33.10	30.60	29.30	5,400
38538U	Wee-B-Little Untreated	11.40	30.35	27.10	24.60	23.30	5,500
38078	WeeeeeOne Blend	25.60	68.20	64.95	62.45	61.15	7,600
38078U	WeeeeeOne Blend Untreated	23.35	62.20	58.95	56.45	55.15	7,900
	Priced per package	1 oz.	4 oz.				
	Priced per pound in these package sizes			1#	5#	25#	Seeds /lb.
38548	Batwing Mix	15.20	44.95	138.30	135.30	133.30	5,800
38525	Jack-B-Quik	9.55	28.15	86.50	83.50	81.50	7,000





































WEE-B-LITTLE







ORANGITA

SPARK

WEEEEEONE BLEND

BLUE DOLL

PUMPKIN	IS	MIN	IIATURE			Pricing on page 105			
	•	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 excel- lent display.
38043	Spark	90	3.5 x 2"	1/2	Deep Orange / Yellow Stripes	HR	Vine	4	Very uniform, striped ornamental variety with a dark green handle that is strongly attached to the fruit. Excellent for fall decorations when used together with Casperita.
38538	Wee-B-Little PVP	95	3 x 3"	1/2	Orange		Bush	3	An AAS winner that can be carved and provides excellent plant health on a tight bush plant. A true mini pumpkin.
		fruit s	et. If you for	rce it into t	he survival	mode (mor	e like a w	eed) with lov	trogen causes excessive plant growth and low v nitrogen, plant size will be reduced and fruit trselves low input production improves yields.
38078	WeeeeeOne Blend [≈] ♦	95	1 ½ x 1 ½" - 3 x 3"	1/2	Orange	IR	Large Bush	3	A unique miniature pumpkin with shallow ribs. Vigorous bush with intermediate resistance to powdery mildew and very high yields. A must have in your miniature and gourd lineup.

PUMPKIN	NS	Pricing on page 109						
	•	Days	Diameter Height	Weight pounds	Skin	Vine	Spacing Category	Features
38012	Blue Doll ^{FI}	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 RPX 6229	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.
NEW 38128	Grizzly Bear 🌑	95	6 x 8"	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 hulless, the roasted seeds are delicious with a nutty texture. Compared to other hulless varieties, maturity is earlier and seed yield is exceptional.
38081	Indian Doll ^{FI}	100	6 x 12"	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.













FRIGHT

GRIZZLY BEAR NEW

INDIAN DOLL

MELLOW YELLOW

MIDNIGHT

PUMPKINS		CIALTY				Pricing on page 109		
	Days	Diameter Height	Weight pounds	Skin	Vine	Spacing Category	Features	
42939 Jarrahdale	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.	
38089 Midnight Black Kat F1	77		1 - 1 ½	Black	Semi Bush	4	Very dark green pumpkin having a classic shape with deep ridges. Will start to turn orange after approximately 2 months of storage. Intermediate tolerance to PM. Plant no earlier than June 22.	
							Additional Specialty Pumpkins can be found on the next page>.	

BARRY'S PUMPKIN GROWING TIPS FOR SUCCESS

My name is Barry Rupp and I have been serving growers as a vegetable seed consultant with Rupp Seeds for over 30 years. Our company started breeding pumpkins about 25 years ago and I've been passionate about them ever since. Following are my "Tips for Success for the Novice Pumpkin Grower" or maybe "Reminders for Success for the Experienced Pumpkin Grower". Regardless of your experience in raising pumpkins, here are nine helpful suggestions, listed in no particular order:

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.

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.







NEW ENGLAND CHEDDAR



ONE TOO MANY



PORCELAIN DOLL

Plant Porcelain Doll and help in the fight against breast cancer. Visit www.PinkPumpkinPatch.org for details.

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Foundation

Pink Pumpkin Patch Foundation PO Box 670 Rocky Ford, CO 81067

For promotional materials, please visit www.ruppseeds.com/PinkPumpkin



UMPKIN	IS	SPE	CIALTY					Pricing on page 10	
		Days	Diameter Height	Weight pounds	Skin	Vine	Spacing Category	Features	
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 F	112	8 ½ x 12"	15	Tan	Vine	2	A hybrid that is excellent for industrial, or home processing (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 FI	110	14"	20	White Back- ground with Red Veins	Large Vine	2	A Rupp product with outstanding potential for decorative use, developed through cross species breeding work. Fruit are 75% round with about 25 oblong fruit.	
38029	Porcelain Doll ^{F1}	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 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 Essex Turban 🌃 🍆	110	14"	20	Bright Orange / Warted	Large Vine	2	A variety sourced from the U.S. Seed Bank with as appearance that is well suited as an unusual addit for the decorative market. Good eating, Hubbard type flesh, very hard, thick rind.	
38533	Rouge Vif d'Etampes ^{Cinderella}	105	15 x 6"	20	Reddish Orange	Vine	2	A unique pumpkin from France. A flattened, deep ridged fruit. Surprising beauty, great yield and fla Cinderella type used for stacking displays.	
38127	Scarface FI	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 we keep its white color (not turn blue or yellow), plus pink and also a pink & blue variety.	
38549	Thumpkin 🌑	120	14 x 8"	15 - 25	Dark Orange	Vine	1	Hard stemmed pumpkin with unique flattened fru and a gigantic handle. Plant at 72 square feet per plant. Crowding results in fewer but larger pumpk From the same supplier as Wolf.	















RED EYE

RED WARTY THING

SCARFACE

SMALL WORLD OF COLOR

THUMPKIN

PUMPKINS SPECIALT	PUMPKINS SPECIALTY							
Priced per package	100 Seed	250 Seed						
Price per 1,000 seeds (M)			1M	3M	25M	100M		
38012 Blue Doll FI400	19.30	35.65	95.00	91.75	89.25	87.95		
38114 Fool's Gold FI400	22.20	41.05	109.45	106.20	103.70	102.40		
38118 Fright F1400	24.70	45.65	121.65	118.40	115.90	114.60		
38093 Goose Bumps II FI400	22.35	41.30	110.05	106.80	104.30	103.00		
38128 Grizzly Bear FI400	22.10	40.90	109.05	105.80	103.30	102.00		
38048 HSC151 FI400	12.60	23.30	62.05	58.80	56.30	55.00		
38081 Indian Doll F1400	18.00	33.30	88.70	85.45	82.95	81.65		
38044 Mellow Yellow FI400	22.10	40.90	109.05	105.80	103.30	102.00		
38089 Midnight Black KatFl400	17.35	32.10	85.50	82.25	79.75	78.45		
38030 Naked Bear	17.10	31.60	84.20	80.95	78.45	77.15		
New England 42969 Cheddar	7.95	14.65	39.05	35.80	33.30	32.00		
New England 42969U Cheddar Untreated	7.95	14.65	39.05	35.80	33.30	32.00		
New England 42969 Cheddar FH400	9.15	16.90	45.05	41.80	39.30	38.00		
42961 One Too Many	35.20	65.15	173.65	170.40	167.90	166.60		
42961U One Too Many Untreated	35.20	65.15	173.65	170.40	167.90	166.60		

PUMPKINS SPECIAL	_TY				M=1,0	000 seeds
Priced per packag	100 e Seed	250 Seed				
Price per 1,000 seeds (M			1M	3M	25M	100M
38029 Porcelain Doll F1400	26.95	49.90	133.05	129.80	127.30	126.00
42967 Red Eye	11.25	20.75	55.30	52.05	49.55	48.25
42967U Red Eye Untreated	11.25	20.75	55.30	52.05	49.55	48.25
42967 Red Eye FI400	12.45	23.00	61.30	58.05	55.55	54.25
42953 Red Warty Thing	11.65	21.50	57.25	54.00	51.50	50.20
42953U Red Warty Thing Untreat	ed 11.65	21.50	57.25	54.00	51.50	50.20
42953 Red Warty Thing FI400	12.85	23.75	63.25	60.00	57.50	56.20
Rouge Vif d'Etampe: 38533 FI400	s 15.95	29.50	78.60	75.35	72.85	71.55
38127 Scarface FI400	22.35	41.30	110.05	106.80	104.30	103.00
38084 Small World of Colo	r 48.00	88.80	236.80	233.55	231.05	229.75

Priced per package	1 oz.	4 oz.				
Priced per pound			1#	5#	25#	Seeds /lb.
38542 Dickinson Field	4.75	14.05	43.20	40.20	38.20	5,100
42939 Jarrahdale	5.20	15.40	47.25	44.25	42.25	2,800
38549 Thumpkin FI400	20.75	61.35	188.70	185.70	183.70	2,200



42961 One Too Many FI400

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 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.



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

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

36.40 67.40 179.65 176.40 173.90 172.60













CASPERITA

SNOWBALL

BLANCO

COTTON CANDY

PUMPK	KINS	WHI	WHITE									
		Days	Diameter Height	Weight pounds	Skin	Powdery Mildew	Vine	Spacing Category	Features			
3853	532 Baby Boo PVP	100	3 x 2"	1/4	White		Vine	4	A white Jack-B-Quik type variety. Should be planted later than Jack-B-Quik types because it will turn a pale yellow at full maturity.			
3803	032 Casperita FI	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.			
3800		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.			
3812	22 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 grow on a restricted vine. Pairs well with Touch of Autumn. The right size for boxing.			
3803	033 Blanco	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.			
3806	065 Cotton Candy FI 🌃 🍆	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.			
381	19 White Gold F1 RPX 6927	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.			
3851	514 Lumina PVP	90	8 x 10"	10 - 15	White		Medium	3	Excellent for both carving or painting. Excellent eating, bright orange flesh shows itself on cut fruit.			
3801	016 Casper	90	8 x 10"	10 - 20	White		Medium	3	CROP FAILURE A smooth, bright white- skinned pumpkin for painting.			
3851	510 Flat White Boer Ford	115	10 x 4"	15 - 17	White		Large	2	A flat pumpkin with a creamy white rind ar 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.			
3804	041 Flat Stacker	90 - 95		15 - 20	White		Semi Bush	4	Extremely oblate shape with deep ribbing. Great for stacking. Good disease resistance.			
3854	545 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.			
3808	086 Crystal Star 🕜 🏷	100	12 x 11"	25 - 35	White		Medium	2	A Rupp variety that will maintain its true white color (not turn blue or yellow at maturity) and be a pumpkin shape.			
3854	547 Full Moon PVP	115	20x28"	25 - 75	White		Large	2	CROP FAILURE A large white display pumpkin. Harvest when white and store in the shade to maintain white color.			
NEW 3812	29 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 typically weighing 30–65 lb, but may exceed 100 lb.			











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FLAT WHITE BOER FORD

FLAT STACKER

VALENCIANO

PUN	IPKINS WHITE					M=1,0	000 seeds
	Priced per package	100 seed	250 seed				
	Price per 1,000 seeds (M)			1M	3M	25M	100M
38033	Blanco FI400		35.75	95.25	92.00	89.50	88.20
38032	Casperita FI400		30.70	81.80	78.55	76.05	74.75
38065	Cotton Candy		16.40	43.65	40.40	37.90	36.60
38065	Cotton Candy FI400		18.65	49.65	46.40	43.90	42.60
38065U	Cotton Candy Untreated		16.40	43.65	40.40	37.90	36.60
38086	Crystal Star FI400	43.85	81.15	216.30	213.05	210.55	209.25
38086U	Crystal Star Untreated	42.65	78.90	210.30	207.05	204.55	203.25
38510	Flat White Boer Ford FI400		20.30	54.05	50.80	48.30	47.00
38041	Flat Stacker FI400	18.15	33.55	89.35	86.10	83.60	82.30
38547	Full Moon	Crop	Failure				

PUMPKINS WHITE					M=1,0	000 seeds
Priced per package	100 seed	250 seed				
Price per 1,000 seeds (M)			1M	3M	25M	100M
38122 Icicle FI400		32.80	87.40	84.15	81.65	80.35
38129 Polar Bear FI400	30.85	57.05	152.05	148.80	146.30	145.00
38004 Snowball FI400		40.90	109.05	105.80	103.30	102.00
38119 White Gold FI400	22.95	42.45	113.15	109.90	107.40	106.10
Priced per package		1 oz.	4 oz.			
Priced per pound in these package sizes				1#	5#	25#
38532 Baby Boo		15.15	44.80	137.75	134.75	132.75
38016 Casper		7.40	21.80	67.00	64.00	
38514 Lumina PVP		10.85	32.10	98.75	95.75	93.75
38545 Valenciano		10.40	30.70	94.40	91.40	89.40







































Natural

Enhance root growth and increase seedling vigor for healthier plants and higher yields with Naturall™ for Vegetables.

See page 150 for rates and pricing.

CHAMPION

CRUNCHY KING

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RADISH				
	*	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.
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		WIN	ITER / ORIENTAL
	*	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=1,0	000 seeds
	Priced per package	4 oz.			
	Priced per pound in these package sizes		1#	5#	25#
39003U Champ	pion Untreated	5.05	12.00	11.75	11.50
39004U Cherry	Belle Untreated	5.05	12.00	11.75	11.50
39005U Crimso	on Giant Untreated	5.05	12.00	11.75	11.50
39001 Easter	Egg II	8.85	21.00	20.75	20.50
39007U French	Breakfast Untreated	5.05	12.00	11.75	11.50
39023U Pink C	elebration Untreated	5.70	13.50	13.25	13.00
39008U Sparkl	er Early Scarlet Untreated	5.05	12.00	11.75	11.50

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	7.25	17.25	17.00	16.75
39009U White	Icicle Untreated	5.05	12.00	11.75	11.50
	Priced per 1,000 seeds in these package sizes	10M	50M	250M	1000M
39104 Celest	a	1.55	1.45	1.40	1.35
39105 Crunc	hy King F300	1.50	1.40	1.35	1.30
39103 Crunc	hy Royal	1.50	1.40	1.35	
39102 Pearl		2.70	2.60	2.55	2.50



SAVE WITH CASH DISCOUNTS

Cash discounts are available throughout the season and are a great way to add money to your bottom line.

See page 154 for all of the details.

 November
 ...7%

 December
 ...6%

 January
 .5%

 February
 .4%

 March
 .3%

April2%

POST HARVEST FINANCING AVAILABLE

We offer a variety of financing options including 0% interest with no payments due until December 2023.

The best rates are available before 12/31/2022. See page 155 for all of the details on how

See page 155 for all of the details on how to take advantage of this payment option.



SALSIFY			
	*	Days	Features
40001	Mammoth Sandwich Island	150	Called Vegetable Oyster. Roots 8 - 9" long. Good winter keeper.

SPINACH		Hybri	id
	*	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.

SPINACH		ОР	
	•	Days	Features
41501	Bloomsdale 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=1,0	000 seeds
Priced per package	1 oz.	4 oz.		
Priced per pound in these package sizes			1#	5#
39503U Black Spanish Round Untreated		7.20	14.75	14.50
39501U China Rose Untreated		7.20	14.75	14.50
39502U China White Untreated		7.20	14.75	14.50
39702 Minowase Summer Cross #3	21.10	67.40	192.45	191.45
39706U Red Meat Untreated	10.80	34.45	98.30	97.30
Priced per 1,000 seeds in these package sizes		1M	5M	25M
39701 April Cross		12.05	10.55	9.55

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
41002 Kona F300	0.58	0.50	0.45	0.42
41001 Olympia F300	0.54	0.46	0.41	0.38

SPINACH OP					
	Priced per package	4 oz.			
	Priced per pound in these package sizes		1#	5#	25#
41501U Bloomsdale	Long Standing Untreated	8.35	13.30	13.00	12.75
41502U Giant Noble	Untreated	8.35	13.30	13.00	12.75
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 - 21/2" in diameter. Another way to determine harvestablity is to harvest when blossom has wilted.

STORAGE

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

DISEASE CODES

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

ZYMV - Zucchini Yellows Mosaic Virus

HERBICIDE CAUTION

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

GROWER PREFERRED ALL-STARS 🥎 SUMMER SQUASH

Dunja has the highest market share of any green zucchini that we offer. Ideal for those customers who want a darker skinned, glossy looking fruit. Dunja also has a comprehensive disease package for extended harvest.

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.

Blonde Beauty has proven itself over the last few year 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.

When choosing a yellow zucchini hybrid, Golden Glory should be your go to variety...hands down. Wide-ranging package includes: small petiole spines, open plant, easy twist picking capabilities, and beautiful contrast between dark green handle and splendid dark yellow fruit. Grow Golden Glory in

Pete Dinius Product Development













BASIMA

CUE BALL

DUNJA

EIGHT BALL

GREEN MACHINE

KOPANA













LIBERTY

MAGDA

PAYCHECK

PAYLOAD

SPINELESS BEAUTY

SPINELESS PERFECTION

SQUASH		SUM	IMER G	REEN +	lybrid			Pricing on page 116
	•	Days	Harvest Length	Color	Туре	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.
42017	Kopana 🐼	45	7 - 8"	Dark Green	Zucchini	Cylindrical	PM, PRSV, WMV, ZYMV	Selected for high tunnel production in the spring. Vigorous, open plant with shiny and slightly flecked fruit. Works best in the presence of some pollination. Uniform high quality fruit for early market. High yielding. Can get nine feet tall.
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.
								Additional Green Summer Squash can be found on the next page>













SPINELESS SUPREME

STARSHIP

BLONDE BEAUTY

ENTERPRISE

FORTUNE

SQUASH			SUN	IMER G	REEN +	lybrid			Pricing on page 116
		*	Days	Harvest Length	Color	Туре	Fruit Shape	Disease	Features
	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.

SQUASH SUMMI			M=1,00	0 seeds			
Price per package	100 Seeds	250 Seeds					
Price per 1,000 seeds (M)			1M	3M	25M	50M	55M
42092 Basima	10.45	17.40	49.65	43.15	41.40		40.40
42072 CashFlow FI400	17.40	28.95	82.65	71.85	70.10		69.10
42084 Cue Ball	13.60	22.65	64.60	56.15	54.40		53.40
42096 Dunja FI400	16.60	27.65	78.90	68.60	66.85	65.85	
42065 Eight Ball	13.80	22.95	65.55	57.00	55.25		54.25
42050 Everglade FI400	15.75	26.20	74.85	65.05	63.30		62.30
Green 42009 Machine FI400	16.35	27.20	77.60	67.45	65.70	64.70	
42017 Kopana	29.85	49.70	141.90				
42052 Liberty FI400	12.65	21.05	60.10	52.25	50.50		49.50
42124 Magda	8.50	14.10	40.15	34.90	33.15		32.15
42088 Paycheck FI400	21.30	35.45	101.15	87.95	86.20		85.20
42002 Payload FI400	22.45	37.35	106.70	92.75	91.00		90.00
Spineless 42027 Beauty FI400	14.65	24.40	69.60	60.50	58.75		57.75
Spineless 42094 Perfection FI400	20.20	33.60	95.95	83.40	81.65		80.65
Spineless 42051 Supreme FI400	21.20	35.30	100.75	87.60	85.85		84.85
42135 Starship	8.10	13.45	38.30	33.30	31.55		30.55

SQUASH SUMMER YE	ELLOW	/ Hybric	d l		M=1,00	00 seeds
Price per package	100 Seeds	250 Seeds				
Price per 1,000 seeds (M)			1M	5M	25M	80M
42018 Blonde Beauty FI400	11.90	19.80	56.50	49.10	47.35	46.35
42059 Enterprise FI400	10.55	17.55	50.10	43.55	41.80	40.80
42042 Fortune FI400	8.85	14.75	42.05	36.55	34.80	33.80
42093 Goldprize FI400	14.75	24.55	70.10	60.95	59.20	58.20
42049 Grandprize FI400	16.80	28.00	80.00	69.55	67.80	66.80
42010 Sunburst FI400	14.10	23.45	67.00	58.25	56.50	55.50
Price per package	100 Seeds	250 Seeds				
Price per 1,000 seeds (M)			1M	3M	25M	80M
42133 Golden Glory FI400	16.90	28.10	80.20	69.70	67.95	66.95
42080 One Ball	13.70	22.80	65.05	56.55	54.80	53.80
Price per package	100 Seeds	250 Seeds				
Price per 1,000 seeds (M)			1M	5M	25M	80M
Transgenic						
42127 Destiny III Crook FI400			68.85	64.95		
42073 XPT 1832 III Straight FI400			67.30	63.45		
Transgenic squash require a STSA	Squash T	echnology :	Stewardshi	in Agreeme	ent licens	e

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.

601	LACIL	CLIA	45455	·
SQL	JASH	SUI	VIIVIEF	r Op

SQUASH SUMMER OP			
Priced per package	4 oz.		
Priced per pound		- V	
in these package sizes		1#	5#
42101U Black Zucchini Untreated	9.10	24.00	23.75
42112U Dark Green Zucchini Untreated	9.45	25.00	24.75
42102U Early Prolific Straightneck Untreated	9.00	23.75	23.50
42103U Golden Summer Crookneck Untreated	8.75	23.05	22.80
42107U Golden Zucchini Untreated	9.00	23.75	23.50
42130U Saffron Untreated	14.35	37.95	37.70
42104U White Bush Scallop Untreated	12.45	32.95	32.70
42116U Yellow Scallop Untreated	13.35	35.25	35.00











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GOLDPRIZE

GRANDPRIZE ON

ONE BALL SUNBURST

SQUASH		SUN	/IMER Y	ELLOW	Hybrid			Pricing on page 116
	•	Days	Harvest Length	Color	Туре	Fruit Shape	Disease	Features
42018	Blonde Beauty 🎷 🏷	40	5 - 7"	Glossy Yellow	Straightneck	Tapered		Spineless petioles provide less painful picking on this hybrid from the Slickpik series. Standard commercial shape with an open plant makes a desirable package all around!
42059	Enterprise 🌑	41	7 - 8"	Yellow	Straightneck	Tapered		Known for its very productive, vigorous plant and broad adaptability. Slim bulb, excellent fruit quality, smooth, small blossom scars.
42042	Fortune b	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.
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 O	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 vig- or, and solid yield potential. Solid outer texture to withstand harvest. Increased virus resistance over Goldprize.
42080	One Ball	38	3 x 3"	Gold	Zucchini	Round		Fruit set at every node and grow very rapidly after flowering. Has occasional green fruit.
42010	Sunburst	50	2 ½ x 3"	Bright Yellow	Scallop	Dish		AAS winner. Attractive, colorful fruit. Best when young.

SQUASH		SUN	/IMER O	Р			
	•	Days	Harvest Length	Color	Туре	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.



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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 $45 - 55^{\circ}F$ 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
- 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 skins
- 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		WIN	ITER A	CORN			
	•	Days	Fruit Size	Weight pounds	Color	Habit	Features
42311	Autumn Delight F1 pmt	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 pmt 🎷 🍅	80	6 ½ x 5 ½"	2 - 2 1/4	Dark Green	Bush	Produces slightly larger fruit with improved taste when compared to Autumn Delight as the standard. Features high resistance to powdery mildew and better yields.
42955	Celebration F1 pmt 🕜 🏷	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. A Rupp exclusive in cooperation with Cornell University.
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 pmt	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 FI	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.
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.
							Additional Winter Acorn Squash can be found on the next page>.

SQUASH WINTER ACO	RN				M=1,00	0 seeds
Priced per package	1 oz.	4 oz.				
Priced per pound in these package sizes			1#	5#	20#	Seeds /lb.
42406 Table Gold	6.50	20.00	54.50	53.50	52.00	5,300
42410 Table Queen	6.00	18.50	50.50	49.50	48.00	5,200
42309 Table Treat	9.75	30.25	82.95	81.95	80.45	4,600
Priced per package	250 Seeds					
Price per 1,000 seeds (M)		1M	3M	25M	55M	Seeds /lb.
42311 Autumn Delight	18.45	49.15	46.15	44.15	43.15	4,300
42311 Autumn Delight F1400	19.60	52.15	49.15	47.15	46.15	4,300
42311U Autumn Delight Untreated	18.45	49.15	46.15	44.15	43.15	
42308 Autumn Perfection FI400	19.30	51.45	48.45	46.45	45.45	
42955 Celebration	12.40	32.95	29.95	27.95	26.95	4,800
42955 Celebration FI400	13.50	35.95	32.95	30.95	29.95	4,800

SQUASH WINTER ACO				M=1,00	0 seeds	
Priced per package	250 Seeds					
Price per 1,000 seeds (M)		1M	зм	25M	55M	Seeds /lb.
42304 Cream of the Crop	13.45	35.75	32.75	30.75	29.75	4,000
42304 Cream of the Crop FI400	14.55	38.75	35.75	33.75	32.75	4,000
42952 Harlequin	11.80	31.40	28.40	26.40	25.40	4,400
42930 Heart of Gold	13.50	36.00	33.00	31.00	30.00	4,900
42930 Heart of Gold FI400	14.65	39.00	36.00	34.00	33.00	4,900
42302 Mashed Potato	15.85	42.25	39.25	37.25	36.25	5,900
42301 Table Ace	14.90	39.65	36.65	34.65	33.65	4,400
42301 Table Ace FI400	16.00	42.65	39.65	37.65	36.65	4,400
42301U Table Ace Untreated	14.90	39.65	36.65	34.65	33.65	4,400
42310 Table Star	11.30	30.05	27.05	25.05	24.05	3,900
42310 Table Star FI400	12.40	33.05	30.05	28.05	27.05	3,900
42307 Taybelle PM FI400	15.95	42.50	39.50	37.50	36.50	4,300



































TABLE ACE TABLE STAR



TABLE TREAT



AUTUMN CUP



ECLIPSE

SQUASH	WIN	ITER A	CORN			PRICING ON PAGE 119
•	Days	Fruit Size	Weight pounds	Color	Habit	Features
42310 Table Star F1 pmt 🎷 🏷	80	6 x 5"	2	Jet Black with a golden star around the stem attachment	Bush	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 FI	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

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.

George Wonnacott Vegetable Consultant

WINTER SQUASH

BUTTERNUT

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

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

DELICATA

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.

HURRARD

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.

SPAGHETT

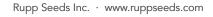
If it's spaghetti squash you're looking for, then **Primavera** is the variety to pick. Uniformity, yield, and great color make this a grower favorite.

OTHE

Galeuse d'Eysines is also known as "The Peanut Squash". Customers can't believe its unusual looks, but they enjoy its delicious squash flavor when fried up in a pan with butter.

Marina de Chioggia is a unique green warted squash that adds variety to your fall display, but also eats very well. It was bred for use in gnocchi and ravioli.

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.













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SPACE STATION

SUNSHINE

SUN SPOT

SWEET MAMA

SQUASH		WIN	ITER BU	TTERCL	JP / KABO	СНА	
	*	Days	Fruit Size	Weight pounds	Color	Habit	Features
42935	Autumn Cup FI 🎷 🍅	95	6"	4 1/2	Dark Green	Semi Bush	The first hybrid, semi bush buttercup squash. Dark green, very high quality flesh and high yields. Has a reduced button when compared to Burgess and is slightly more oval.
42904	Buttercup Burgess	110	8 - 9 x 5"	3	Dark Green	Vine	Flesh is dry and sweet, good for storage, fresh market or garden.
42963	Eclipse F1 🎷 🏷	85	7 x 4"	3 1/2	Black Green	Vine	A buttercup (kabocha) hybrid.
42962	Space Station FI 🌈 🍆	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.
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.
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.
42905	Sweet Mama FI	85	8 - 9 x 5"	4	Dark Green	Semi Bush	AAS winner. A kabocha with sweet flavor that stores well.
42968	Thunder F1 🌈 🍆	85	7 x 4"	3 ½	Black Green	Vine	A buttercup (kabocha) hybrid that is an excellent yielder with dry sweet flesh.

SQUASH WINTER BU	łA	M=1,000 seeds			
Priced per package	1 oz.	4 oz.			
Priced per pound in these package sizes			1#	5#	20#
42927 Baby Delica	29.00	93.50			
42904 Buttercup Burgess	5.00	14.75	40.30	39.30	37.80
42905 Sweet Mama FI400	27.00	87.00	239.45	238.45	236.95

SQUASH WINTER BU	TTERC	CUP / K	ABOCH.	А	M=1,000 seeds
Priced per package	250 Seeds				
Price per 1,000 seeds (M)		1M	3M	25M	55M
42935 Autumn Cup	26.30	70.10	67.10	65.10	64.10
42935 Autumn Cup FI400	27.45	73.10	70.10	68.10	67.10
42963 Eclipse	27.05	72.10	69.10	67.10	66.10
42963 Eclipse FI400	28.20	75.10	72.10	70.10	69.10
42962 Space Station	34.60	92.25	89.25	87.25	86.25
42962 Space Station FI400	35.75	95.25	92.25	90.25	89.25
42962U Space Station Untreated	34.60	92.25	89.25	87.25	86.25
42902 Sunshine	23.35	62.15	59.15	57.15	56.15
42966 Sun Spot	24.65	65.70	62.70	60.70	59.70
42966 Sun Spot FI400	25.80	68.70	65.70	63.70	62.70
42968 Thunder	27.40	72.95	69.95	67.95	66.95
42968 Thunder FI400	28.50	75.95	72.95	70.95	69.95

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BETTERNUT 23

BETTERNUT 401

BETTERNUT 1744

BUGLE BUT

SQUA	SQUASH			WINTER BUTTERNUT						
		•	Days	Fruit Size	Weight pounds	Color	Habit	Features		
42	2617	Atlas FI	100 - 110	10 - 12"	5 - 7	Light Tan	Semi Bush	A uniform butternut hybrid. High yields. Good for processing.		
42	2613	Avalon ^{FI}	88	11"	4 - 5	Buff	Vine	This Hollar Seeds butternut is a good packing and high yielding variety.		
42	2606	Betternut 23 F1 pmt 🎷 🍆	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.		
42	2614	Betternut 401 F1 pmt 🕜 🍃	80	8 - 9"	2 3/4	Light Tan	Semi Bush	A hybrid with good flesh color and uniformity on a semi bush plant. Powdery mildew tolerant.		
42	2622	Betternut 900 F1 pmt 🎷 🍃	80	8 - 9"	3	Light Tan	Semi Bush	Overall best variety in the Betternut series for boxing. Powdery mildew tolerant.		
42	2976	Betternut 1744 F1 pmt 🎷 🍆	80	8 - 9"	3 1/4	Light Tan	Semi Bush	Slightly larger than Betternut 900 for farm markets and roadside stands. Provides powdery mildew tolerance.		
42	2704	Bugle 1	80	10"	3	Light Tan	Semi Bush	Uniform fruit that are slightly smaller than Waltham. Bred by Molly Jahn and George Moriarty at Cornell.		
42	2607	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.		
42	2702	Honeynut	105 - 110	4 - 5"	1/2 - 1	Dark Tan	Restricted Vine	Produces single-serving squash with very sweet and delicious flavor. Very high yielding.		
42	2626	Quantum F1	100 - 110	7"	2 ½ - 4 ½	Light Tan	Vine	Large necked, blocky fruit. Thick flesh.		
* 42	2615	Ultra ^{F1}	90	15"	10	Light Tan	Vine	A high yielding large butternut for both processors and market gardeners.		
	2701	Waltham	97	10 - 12"	3 - 6	Light Tan	Vine	Vigorous, fruit size more variable than hybrids.		

SQUASH WINTER BU	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	8.00	25.25	69.55	68.55	67.05	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 FI400	22.80	60.70	57.70	55.70	54.70	5,100
42613 Avalon FI400	19.95	53.10	50.10	48.10	47.10	5,000
42606 Betternut 23	14.80	39.40	36.40	34.40	33.40	5,000
42606 Betternut 23 FI400	15.90	42.40	39.40	37.40	36.40	5,000
42614 Betternut 401	14.30	38.10	35.10	33.10	32.10	6,000
42614 Betternut 401 F1400						

SQUASH WINTER BU	M=1,000 seeds					
Priced per package	250 Priced per package Seeds					
Price per 1,000 seeds (M)		1M	3M	25M	100M	Seeds /lb.
42622 Betternut 900	16.15	42.95	39.95	37.95	36.95	4,600
42622 Betternut 900 FI400	17.25	45.95	42.95	40.95	39.95	4,600
42622U Betternut 900 Untreated	16.15	42.95	39.95	37.95	36.95	4,600
42976 Betternut 1744	14.05	37.40	34.40	32.40	31.40	5,000
42976 Betternut 1744 FI400	15.15	40.40	37.40	35.40	34.40	5,000
42607 Butterbaby FI400	14.00	37.25	34.25	32.25	31.25	5,800
42702 Honeynut	11.55	30.75	27.75	25.75	24.75	
42626 Quantum FI400	22.80	60.70	57.70	55.70	54.70	4,900
42615 Ultra FI400	20.60	54.90	51.90	49.90	48.90	4,500







WINTER CALABASA







HONEYNUT

SQUASH

QUANTUM

LA ESTRELLA

BUSH DELICATA

JESTER

	•	Days		Weight :	Veight pounds Colo		Habit	Features	
42802	La Estrella ^{FI} (7)		orthern U.S. / rida in Winter		thern U.S. Summe la Winter	er / Green ai	nd Tan Vine	A Rupp exclusive from the University of Florida. Bred by Dr. Don Maynard for uniform fruit size and superior flesh color. Fruit are a popular choice for use in Punkin Chunkin contests.	
QUASH	5	WIN	ITER DE	LICATA	/ SWEET D	UMPLIN	IG		
	•	Days	Fruit Size	Weight pounds	Color	Habit	Features		
42957	Bush Delicata 🎷 🏷	105	5 - 6"	2	White / Green Stripes	Bush		r bred by Cornell and marketed by Rupp. A fruit on a bush plant with strong tolerance dew.	
42931	Delicata	100	5 - 6"	2 - 3	Green / White Stripes	Vine		RE Colorful with fine grained, sweet flesh. An 1 with better fruit shape.	
42945	Festival F1	100	4 - 5"	1 ½ - 2	Yellow Green Orange	Vine	oversized fruit,	REA Carnival type squash with fewer similar color and flesh quality. Fruit shape is orn and Sweet Dumpling. Highly ornamental ng quality.	
42933	Jester ^{F1}	95	5 - 7"	1 ½	lvory / green inter-rib stripes	Short Vines	both ends, with	vith eye-catching fruit. Oval and tapered at small to average ribs. Among the best in About 60 days storage time.	
42911	Sweet Dumpling	100	4"	1	Cream Striped	Vine	CROP FAILUF 3 - 4 months.	RE Colorful, acorn shape, sweet flesh. Stores	
42501	Sweet Lightning Fl pmt 🎷 🍆	100	3 x 5"	1 - 1 1⁄4	Pale Yellow / Orange Stripes	Semi Bush	eating qualities	t with both outstanding decorative and . Is one of the best flavored when used as a wdery mildew tolerance on a semi-bush vine.	
42934	Ugly Dumpling FI 🌃 🖔	100	2 ½ x 3 ¾	³ ⁄4 - 1	Tan / Green Stripes	Semi Bush	trial partners to	lance it may not have great eye appeal, our ell us its one of the best tasting winter squash ed, and its unique appearance makes it an lecoration too.	

SQUASH WINTER CA	SA		M=1,0	000 seeds	
Priced per package	250 Seeds				
Price per 1,000 seeds (M)		1M	3M	25M	55M
42802 La Estrella	14.20	37.80	34.80	32.80	31.80

SQUASH WINTER DEL	ICATA .	/ SWEE	T DUM	1PLING	
Priced per package	1 oz.	4 oz.			
Priced per pound in these package sizes			1#	5#	25#
42931 Delicata	Crop	Failure			
42945 Festival	Crop	Failure			
42911 Sweet Dumpling FI400	Crop	Failure			
Priced per package	250 Seeds			M=1,00	00 seeds
Price per 1,000 seeds (M)		1M	3M	25M	100M
42957 Bush Delicata	12.35	32.85	29.85	27.85	26.85
42957 Bush Delicata FI400	13.45	35.85	32.85	30.85	29.85
42933 Jester	16.45	43.80	40.80	38.80	37.80
42501 Sweet Lightning	21.10	56.25	53.25	51.25	50.25
42501 Sweet Lightning FI400	22.25	59.25	56.25	54.25	53.25
42934 Ugly Dumpling FI400	23.00	61.25	58.25	56.25	55.25

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FESTIVAL

SWEET LIGHTNING VUGLY DUMPLING

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NK580

RSP1232

SQUASH		WIN	ITER HU	IBBARD			
	•	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	A	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 HUB	M=1,000 seeds				
Priced per packaş	4 oz.				
Priced per pour in these package siz			1#	5#	25#
42913 Baby Blue	6.75	21.00	57.50	56.50	55.00
42906 Blue Hubbard	4.50	13.75	37.70	36.70	35.20
Blue Hubbard New 42918 England	7.75	24.00	65.60	64.60	63.10
42944 Blue Magic	14.25	44.50	122.50	121.50	120.00
42908 Chicago Warted	4.25	12.75	34.50	33.50	32.00
42907 Golden Delicious	4.50	13.75	37.70	36.70	35.20
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	13.50	42.75	117.30	116.30	114.80

SQUASH WINTER HUBBA	M=1,000 seeds				
Priced per package	250 Seeds				
Price per 1,000 seeds (M)		1M	3M	25M	55M
42977 Heavenly Hubbard	46.25	123.30	120.30	118.30	117.30
42921 NK580	15.10	40.15	37.15	35.15	34.15
42921 NK580 FI400	16.20	43.15	40.15	38.15	37.15
42972 RSp1232 F1 F1400	18.55	49.45	46.45	44.45	43.45
42982 RSp1962 F1 F1400	17.85	47.60	44.60	42.60	41.60













RSP1962

PINNACLE

VEGETABLE SPAGHETTI

SQUA	ASH		WINT	TER SPA	GHETT	l		Pricing on page 126
		•	Days	Fruit Size	Weight pounds	Color	Habit	Features
42	2950	Pinnacle ^{FI}	85	7 x 5"	3	Bright Yellow	Semi-Bush	Spaghetti squash with a semi-bush plant habit, that allows higher plant densities and higher yields per acre. Fruit ripen to an appealing bright yellow color. The spaghetti strands are fine and have the nutty flavor of a true Spaghetti Squash.
* 42	2946	Primavera F1	90 - 95	5 ½ x 10"	2 ½ - 3	Canary Yellow	Restricted Vine	A high yielding Sakata hybrid with good uniformity and attractive color.
42	2947	Small Wonder	90	6"	1 ½ - 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.
42	2903	Spaghetti	105	8 - 10"	2 ½ - 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.
42	2929	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.
42	2920	Tivoli ^{F1}	95	6 - 7"	3 - 4	Creamy	Bush	AAS Winner. First bush spaghetti squash.
42	2981	Vegetable Spaghetti ^{Sakata}	100	5 ½ x 10"	2 1/2	Creamy Yellow	Vine	Sakata's popular OP spaghetti squash introduced years ago. Long, oval shaped with noodle-like strands inside when cooked.

WINTER SQUASH PLANTING/HARVESTING TIMING CHART

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

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

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

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

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











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GALEUSE D'EYSINES



RUPP'S TURK'S TURBAN



TINY TURK



FULL SUN IMPROVED



127

JEOASII									Thing on page 127	
			_	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, allowing for a supply of high-quality fruit throughout the winter season. Also adds a nice variety to 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.	
	\bigstar	42971	Galeuse d'Eysines Peanut	100	6 ½ x 11"	18	Pink	Vine	A warty squash from France with ornamental value plus delicious when fried in butter.	
		42948	Georgia Candy Roaster	110	2 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.	
	\bigstar	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.	
III.	*	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	CROP FAILURE An excellent keeper with great tasting flesh. Makes superior pies. An old time favorite of the Northwest.	
		26024	Tiny Turk 🕜	100	4 x 5"	1½-3	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 SPAGE	M=1,000 seeds				
Priced per package	1 oz.	4 oz.			
Priced per pound in these package sizes			1#	5#	25#
in these puckage sizes			1177	J#	23#
42903 Spaghetti	6.75	21.00	57.25	56.25	54.75
42920 Tivoli FI400	18.00	57.50	158.50	157.50	156.00
42981 Vegetable Spaghetti Sakata F1400	10.25	32.50	89.50	88.50	87.00
Priced per package	250 Seeds				
Price per 1,000 seeds (M)		1M	3M	25M	Seeds /lb.
42950 Pinnacle FI400	34.65	92.35	72.70	72.20	2,600
42946 Primavera FI400	26.80	71.40	56.20	55.70	3,500
42947 Small Wonder	29.70	79.20	62.35	61.85	2,000
42929 Stripetti	25.40	67.65	53.25	52.75	5,900

SUNFLOWER & CUT FLOWERS			Pricing on page 127 & 129
△ Days		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 stems (6') and smaller heads (5") - plant 4" apart. For taller stems (7-8') and larger heads (7") - plant 6" apart.
47005	Giant Striped	80	Excellent confectionery type variety. Striped, plump seeds are well filled and have thin hulls. 6 - $12'$ tall. Plant at 3 - 4 pounds per acre.
NEW 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		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.
47028	NuSun 545CL	95	A mid-maturity black oil with an overall strong disease package giving it excellent stalk strength. 545CL includes the Clearfield Production System for 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.

SQL	JASH WINTER OTHER				M=1,00	0 seeds
	Priced per package	1 oz.	4 oz.			
	Priced per pound in these package sizes			1#	5#	25#
42001	Banana Pink Jumbo	6.75	21.25	58.00	57.00	55.50
42901	Banana Pink Jumbo	0./5	21.25	56.00	57.00	
38505	Cushaw Green Striped	6.50	20.25	55.25	54.25	52.75
42948	Georgia Candy Roaster	7.25	22.75	62.50	61.50	60.00
42105U	Sweet Meat Untreated	Crop	Failure			
26024	Tiny Turk	7.00	22.00	60.10	59.10	57.60
42938	Tricolor Cushaw	7.00	21.75	60.00	59.00	57.50
26007	Turk's Turban	6.75	20.75	56.65	55.65	54.15
42954	Zapalo Plomo	7.00	22.00	60.10	59.10	57.60
	Priced per package	250 Seeds				
		Seeds				
	Price per 1,000 seeds (M)		1M	3M	25M	55M
42989	Autumn Frost	27.70	73.75	70.75	68.75	67.75
42971	Galeuse d'Eysines Peanut	24.75	66.00	63.00	61.00	60.00
42971U	Galeuse d'Eysines Peanut Untreated	24.75	66.00	63.00	61.00	60.00
42971	Galeuse d'Eysines Peanut F1400	25.90	69.00	66.00	64.00	63.00
42970	Marina de Chioggia	29.30	78.05	75.05	73.05	72.05
42970U	Marina de Chioggia Untreated	29.30	78.05	75.05	73.05	72.05
42970	Marina de Chioggia FI400	30.40	81.05	78.05	76.05	75.05
26017	Rupp's Turk's Turban FI400	19.60	52.15	49.15	47.15	46.15

SUNFLOWER				M=1,0	00 seeds
Priced per package	1 oz.	4 oz.			
Priced per pound in these package sizes			1#	5#	50#
47005U Giant Striped Untreated		7.60	13.75	13.25	13.00
47016U Lemon Queen Untreated	4.80	15.65	44.00	43.00	
47014U Sunspot Dwarf Untreated	4.80	15.65	44.00	43.00	
47015U Velvet Queen Untreated	4.80	15.65	44.00	43.00	
Priced per 1,000 seeds in these package sizes		5M	25M	50M	100M
47027 NuSun 3732		5.25	4.25	3.75	3.50
47028 NuSun 545CL Clearfield		5.75	4.75	4.25	4.00

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





PROCUT BICOLOR



PROCUT PLUM



PROCUT RED



PROCUT WHITE LITE



PROCUT WHITE NITE



PROCUT HORIZON



PROCUT ORANGE EXCEL



SUNFILL GREEN

Days



SUNFILL PURPLE

Features



SUNRICH GOLD



SUNRICH LEMON



SUNRICH LIME

	SUNFLOWER & CUT FLOWERS
	•
2	Cut Flowers
4	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	A brand new 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.		
c	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	Sunflowers				
	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		
	47042	SunFill Purple	55-60	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.		
	Sunrich Serie	s Sunflowers				
	47001	Sunrich Gold	55-70			
	47002	Sunrich Lemon	55-70	Sunrich Series Cut Sunflowers. An early, male sterile, pollenless sunflower used exclusively for the cut flower market. A 48" - 60" plant when cut will have a height of 2 - 2 ½ feet, with a 5 - 6" flower. Works best if direct		
	47006	Sunrich Lime	55-70	sown with a 5" spacing. Need to keep a dense planting. Over fertilizing will cause the flower to grow too big for floral purposes.		
	47003	Sunrich Orange	55-70	3 · 3 · · · · · · · · · · · · · · · · ·		
	47070	Sunrich Blend	50-70	A blend of the five Sunrich Sunflower Series.		
	47004	Sunrich Limoncello Summer	50-65	An early variety in the Sunrich series. Flowers 5 to 10 days earlier than the Gold, Lemon and Orange. A unique bi-color flower, vibrant yellow changing to a light, creamy yellow tip.		
	Zinnia					
	50001	Benary Giant Zinnia Mix	63-70	Undeniably the most eye catching Zinnia mix available for cut flower growers. 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.		

 $Tall-growing, well-branched\ Zinnia\ with\ bright\ rose\ 4-5"\ double\ blooms.\ Very\ uniform\ 28-36"\ height.\ A\ prized\ cut\ flower.$

50002

Uproar Rose Zinnia

70-80







SUNRICH LIMONCELLO SUMMER



BENARY GIANT MIX



UPROAR ROSE NEW



CELEBRATION



SUPER VERDE

SWISS CHARD			
	•	Days	Features
43006	Celebration	60	CROP FAILURE A multi-colored chard. It exhibits highly uniform plants with dark green, glossy leaves. It has vibrant multi-colored petioles and venations with high percentage of pink, yellow and orange chards. Great for producing full-sized specialty chard or baby leaf.
43004	Five Color Australian Heirloom	60	Offers growers a rainbow of stem colors: yellow, gold, orange, pink, violet, green, white, red or striped, plus green, dark green or bronze leaf colors. Has improved tenderness and a mild chard flavor. Can be used fresh as a miniature leaf in salads or cooked when more mature.
43001	Fordhook Giant	60	A vigorous variety with dark green, savoyed, fleshy leaves. Stalks are 2 ½" 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		
•	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 0	00 seeds
	500	111-170	oo seeds
Priced per package	Seeds		
Price per 1,000 seeds (M)		1M	5M
Cut Flowers			
47010U Goldy Double Untreated	15.75	24.75	22.50
47007U Full Sun Improved Untreated	24.75	39.25	35.50
47037U ProCut BiColor Untreated	19.25	30.25	27.50
47036U ProCut Horizon Untreated	19.25	30.25	27.50
47035U ProCut Orange Excel Untreated	19.25	30.25	27.50
47033U ProCut Plum Untreated	19.25	30.25	27.50
47034U ProCut Red Untreated	21.75	34.25	31.00
47031U ProCut White Lite Untreated	27.00	42.50	38.50
47032U ProCut White Nite Untreated	27.00	42.50	38.50
47080U ProCut Blend Untreated	27.50	43.50	34.75
47041U SunFill Green Untreated	27.00	42.50	38.50
47042U SunFill Purple Untreated	27.00	42.50	38.50
47001U Sunrich Gold Untreated	24.75	39.00	35.25
47002U Sunrich Lemon Untreated	24.75	39.00	35.25
47006U Sunrich Lime Untreated	24.75	39.00	35.25
47004U Sunrich Limoncello Summer Untreated	24.75	39.00	35.25
47003U Sunrich Orange Untreated	24.75	39.00	35.25
47070U Sunrich Blend Untreated	30.75	48.75	39.00

SUNFLOWER		M=1,0	000 seeds
Priced per pa	250 kage Seeds		
Price per 1,000 seed.	; (M)	1M	5M
Zinnia			
50001U Benary Giant Zinnia Mix Untreated	13.50	35.75	32.50
50002U Uproar Rose Zinnia Untreated	45.00	120.00	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	12.65	33.00	32.75	32.25
43001U Fordhook Giant Untreated	5.50	14.25	14.00	13.50
43801U Lucullus Untreated	5.50	14.25	14.00	13.50
43002U Rhubarb Untreated	8.90	23.25	23.00	22.50
43003 Silverado	3.45	9.00	8.75	8.25
Priced per 1,000 seeds in these package sizes	10M	25M	250M	1000M
43006 Celebration	Cro	p Failure		

TOMATILLO					M=1,0	00 seeds
Priced per package Price per 1,000 seeds (M)	100 Seeds	500 Seeds	1M	5M	25M	100M
44530 Super Verde	4.30	14.25	22.80	19.80	18.00	17.10



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

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

HEALTH KICK

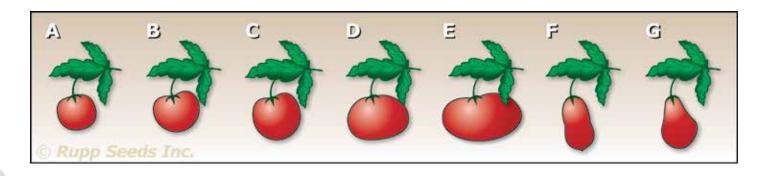
LEMON BOY PLUS

TOI	MATO		НО	ME GA	RDEN	/ BEDD	ING H	ybrid		
		*	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	С	INDT	ASC, FR ¹ , GLS, N, VW	Widely adapted.
	44080	Better Boy Plus 🚮	77	FM/HG	8	GS	С	INDT	ASC, FCR, FR ¹ , GLS, N,SW, ToMV ² , VW	Better Boy Plus has all the great characteristics of the classic 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	Big Beef Plus boasts better flavor, adaptability, disease resistance and appearance! It has the Crimson Gene that gives this classic tomato a visibly deeper red internal gel.
	44003	Big Boy Burpee's	78	HG	12	GS	С	INDT		Large, popular home garden.
	44006	Celebrity	72	FM, HG	8	GS	D	DT	ASC, FR ^{1,2} , GLS, N, TMV, VW	AAS winner. Excellent flavor.
*	44082	Celebrity Plus 🚳	75	FM, HG	8	GS	D	DT	ASC, FR:0-1, GLS, N, SW:0,T- MV ⁰⁻² , VW:0	A widely adaptable hybrid for fresh market and home garden with added resistance to tomato spotted wilt virus. Large, smooth fruit with outstanding flavor.
	44035	Early Girl 🔬	60	HG	4 - 6	GS	В	INDT	VW	Popular, early home garden variety.
NEW	44098	Early Girl Plus	60	HG	4 - 6	GS	В	INDT	SW	One of the best-selling early varieties on the market just got better. Same great taste, with a great disease package. Enjoy more fruit per yield.
	44153	Health Kick	72	FM, HG	4	UG	F	DT	SW	A high-yielding roma type with 50% more lycopene than the average variety.
	44102	Husky Red	67	BP, HG	5 - 7	UG	В	DWARF INDT	FR ¹ , VW	Outstanding flavor and yield. Excellent in a container.
	44009	Lemon Boy	72	HG	6	GS	С	INDT	ASC, FR ¹ , GLS, N, VW	Lemon colored, sweet flavored.
	44083	Lemon Boy Plus 鈊	70	FM/HG	7	GS	С	INDT	ASC, FCR, FR ¹⁻³ , GLS, N, ToMV ⁰⁻² , ToTV, VW ¹ ,	Lemon Boy Plus 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.

Home Garden/Beddings continued on the next page-->

TOMATO HOME C	A DDEI	\/\DED	DINC			
TOMATO HOME G			DING	Hybrid		
Priced per package	100 Seeds	500 Seeds			M=1,00	0 seeds
Price per 1,000 seeds (M)			1M	5M	25M	100M
44015 Beefmaster	6.00	22.95	36.65	31.85	28.95	27.55
44002 Better Boy	6.75	25.95	41.50	36.05	32.75	31.15
44080 Better Boy Plus	9.00	34.45	55.05	47.85	43.50	41.40
44076 Big Beef	8.65	33.15	53.00	46.05	41.85	39.85
44081 Big Beef Plus	11.45	44.00	70.40	61.20	55.60	52.95
44003 Big Boy Burpee's	5.85	22.45	35.85	31.15	28.30	26.95
44006 Celebrity	8.40	32.20	51.45	44.70	40.60	38.65
44082 Celebrity Plus	11.15	42.70	68.30	59.35	53.95	51.35
44035 Early Girl	6.25	24.00	38.40	33.35	30.30	28.85
44098 Early Girl Plus	9.20	35.30	56.45	49.05	44.55	42.40

Priced per package	100 Seeds	500 Seeds			M=1,0	00 seed
Price per 1,000 seeds (M)			1M	5M	25M	1001
44153 Health Kick	9.75	37.35	59.70	51.90	47.15	44.9
44102 Husky Red	7.75	29.75	47.60	41.35	37.55	35.7
44009 Lemon Boy	8.85	33.90	54.20	47.10	42.80	40.7
44083 Lemon Boy Plus	12.05	46.25	73.95	64.30	58.45	55.6
44025 Patio	Crop	Failure				
44095 Pink Delicious	12.75	48.90	78.20	68.00	61.80	58.8
44073 Pink Girl	8.00	30.70	49.05	42.65	38.75	36.9
44085 RuBee Dawn	24.20	92.95	154.90	140.80	134.05	127.6
44124 RuBee Goddess	24.20	92.95	154.90	140.80	134.05	127.6





























W

T	OMA	OTA		НО	ME GA	RDEN	/ BEDD	ING H	ybrid		Pricing on page 131
				Days	Use	Weight ounces	Shoulders	ers Shape Habit Disease			Features
	440	025	Patio	70	HG	4	GS	D	DWARF	ASC, FR ¹	CROP FAILURE Excellent container hybrid.
0	IEW 444	1095	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 titan of a tomato will be sure to please any heirloom lover. Plant this variety and it won't take long to discover these enormous, ribbed, garden gifts will produce plenty to share with friends and family.
	440	1073	Pink Girl	76	FM, HG	8	GS	D	INDT	ASC, FR ¹ , GLS, VW	A smooth pink hybrid for home garden or market.
	441	1085	RuBee Dawn 🖍	55	FM/HG	7	GS	С	INDT	ASC, FCR, Ff, FR:0-1, GLS, N, ToMV ⁰⁻¹ , VW ¹	RuBee Dawn is 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.
(IEW 44	124	RuBee Goddess 鈊	60- 65	FM/HG	7	GS	С	INDT	ASC, FCR, FR ¹⁻² , Ff A-E, ToMV ⁰⁻¹ , VW ¹	Rubee Goddess is 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

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.

Mountain Spring has been a favorite of tomato growers for a long time. Fruit size is consistently large and the maturity is midseason. Mountain Spring can be used in both open field and high tunnel applications.

Dave Silveus Vegetable Consultant

TOMATOES

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.

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.













RUBEE DAWN

RUBEE GODDESS NEW

BHN-871

BHN-964

CAROLINA GOLD













FLORIDA 7514

GRAND MARSHALL

LAGUNA RED

MOUNTAIN MAN

MOUNTAIN SPRING RAMBLER RAMBLER

ТОМАТО		FRE	SH MA	ARKET	Hybrid				Pricing on page 134
	*	Days	Use	Weight ounces	Shoulders	Shape	Habit	Disease	Features
44209	BHN-871 🐔	76	FM	10	UG	С	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	С	DT	FR, TMV, VW	A variety with early blight tolerance. Possesses beautiful shoulders and excellent interior flesh quality. Sets well in the heat.
44126	Carolina Gold 🚳	75	HG, FM	10 - 12	GS	С	DT	FR ^{1,2} , VW	A yellow hybrid from Syngenta and North Car- olina State University with very small blossom scar, tolerance to cracking and weather check.
44120	Florida 47 R	75	S	10	UG	С	DT	ASC, FR ^{1,2} , GLS, VW	A Seminis hybrid with exceptional firmness and fruit quality.
44159	Florida 7514 🌈	75	FM, S	10	UG	С	DT	BS, BW, FR ^{1,2} , GLS, VW	A University of Florida hybrid with excellent disease resistance, fruit qualities, yield, plus good crack resistance and great flavor.
44045	Grand Marshall	78	FM, S	9 - 10	UG	С	DT	ASC, FR ^{1,2} , GLS, TYLC, VW	Vigorous hot set variety with extra-large and large, firm fruit. Pruning is beneficial at a low to medium level. Strong plant and good field performance under bacterial pressure.
44061	Laguna Red ೂ	70	FM, S	8 - 12	UG	С	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	С	DT	SW	Mountain Man is a fresh market tomato ideal for the eastern summer production season. The strong plant type produces extra-large fruit with delicious flavor that keeps customers happily returning.
44067	Mountain Spring 鈊	70	FM, S	10	UG	С	DT	FR ^{1,2} , VW	A superior market hybrid.
NEW 44123	Rambler 🕰	68- 72	FM, S	8 - 12	UG	С	DT	ASC, FR ¹⁻³ FCR, GLS, SW, VW ¹	Rambler is an adaptable, high quality determinate salad variety featuring high yield potential of jumbo and extra-large fruit. Fruit size, color, quality, and firmness are excellent. Suited for both mature green and vine ripe markets. The plants are medium-tall and benefit from light to no pruning.
									Fresh Markets continued on the next page>











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RED SNAPPER

ROADSTER

SAYBROOK

SKYWAY 687	

TOI	MATO		FRE	FRESH MARKET Hybrid								
		•	Days	Use	Weight ounces	Shoulders	Shape	Habit	Disease	Features		
*	44063	Red Snapper	70	FM, S	8 - 12	UG	С	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.		
*	44048	Roadster 🐠	67	FM, S	8 - 12	UG	С	DT	ASC, FR ^{1,2,3} , TSWV, VW	High quality variety with large sized fruit. Fruit are attractive red, very firm and smooth- shouldered. Medium tall plants and benefit from light pruning.		
	44057	Saybrook	80	FM, S	10	UG	С	DT	GLS, N, SW, VW	Saybrook is a determinate round tomato that is ideal for both the vine ripe and mature green market. The vigorous plant type produces a large set of extra-large smooth fruit all the way to the top of plant with good canopy cover to help reduce the risk of sunscald.		
	44022	Skyway 687 💁	75	FM	11	UG	С	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 vineripe 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. Has potential to be used in multiple slots and regions across the eastern USA.		

TON	MATO FRESH M	d		M=1,0	M=1,000 seeds		
	Priced per package	100 Seeds	500 Seeds				
Pı	rice per 1,000 seeds (M)			1M	5M	25M	100M
44188P	BHN-602 Pelleted	16.50	63.35	105.55	95.95	91.35	87.00
44209P	BHN-871 Pelleted	16.50	63.35	105.55	95.95	91.35	87.00
44214P	BHN-964 Pelleted	16.50	63.35	105.55	95.95	91.35	87.00
44126P	Carolina Gold Pelleted	12.60	48.40	80.60	73.25	69.75	66.40
44028P	Dixie Red Pelleted	16.80	64.55	107.55	97.75	93.05	
44206	Finishline	12.80	49.15	81.90			
44120P	Florida 47 R Pelleted	15.45	59.30	98.80	89.80	85.50	81.40
44159	Florida 7514	8.65	33.15	55.25	50.20	47.80	45.50
44045	Grand Marshall	17.35	66.65	111.05	100.95	96.10	91.50
44061P	Laguna Red Pelleted	17.50	67.15	111.85	101.65	96.80	92.15
44071	Mountain Man	12.25	47.05	78.35	71.20	67.80	64.55
44067	Mt. Spring	9.60	36.85	61.40	55.80	53.10	50.55

TON	MATO FRESH M	ARKE	T Hybrid	d		M=1,0	000 seeds
	Priced per package	100 Seeds	500 Seeds				
Pı	rice per 1,000 seeds (M)			1M	5M	25M	100M
44067P	Mt. Spring Pelleted	10.10	38.70	64.50	58.60	55.80	53.10
44123P	Rambler Pelleted	19.55	75.15	125.20	113.80	108.35	103.15
44063P	Red Snapper Pelleted	19.55	75.15	125.20	113.80	108.35	103.15
44014P	RidgeRunner Pelleted	12.45	47.70	79.50	72.25		
44048P	Roadster Pelleted	17.50	67.25	112.05	101.85	97.00	92.35
44057P	Saybrook Pelleted	16.45	63.25	105.40	95.80	91.20	86.85
44022P	Skyway 687 Pelleted	16.45	63.15	105.25	95.65	91.05	86.70
44086	STM2255	26.95	103.50	172.45	156.75	149.25	142.10
44075	Sunbrite	9.10	34.85	58.05	52.75	50.20	
Surplus	List						
44012P	Brickyard Pelleted	5.00	19.15	31.90	29.00	27.60	
44046	Katana	5.00	19.15	31.90			



CHOCOLATE SPRINKLES



GOLD SPARK



RUBY CRUSH



SWEET GOLD NEW



SWEET HEARTS



TIDY TREATS

TOMATO			CHE	ERRY H				
		*	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	.45	Globe	INDT	FR¹, N	Heirloom flavor and appearance with a modern disease package and firm texture. Performs well in high tunnel and open field. Unique dark red fruit with a green striped exterior and purple flesh color.
	44087	Gold Spark 🕜	65	.45	Grape	INDT	Ff, ToMV ⁰⁻² , GLS	Gold Spark a great tasting indeterminate yellow grape with high yield and consistent brix throughout the season. Excellent shelf life. Plants display strong vigor with medium height.
	44103	Husky Cherry Red	65	1	Cherry	Dwarf Indt	FR1 VW	High yields with controlled growth.
	44165	Red Grape	68	.35	Grape	INDT		A superior flavored grape tomato from D. Palmer Seed with firm, excellent shaped red fruit.
	44047	Ruby Crush 🐔	65	.45	Grape	DT	FCR, FR ^{1,2} , ToMV ⁰⁻² , GLS	Deep red fruit that are very smooth, uniform and firm with a good flavor profile. Limited to no pruning necessary. High yield potential.
*	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	FR¹, TMV, VW	Popular cherry hybrid.
NEW	44125	Sweet Gold	65	.35	Cherry	INDT	FR ¹ , ToMV	A very early, indeterminate yellow cherry tomato with good flavor. Plants are high yielding and very vigorous — producing single and double clusters. Fruit are small and weigh around 10 to 15 grams.
	44199	Sweet Hearts 🐼	60	.45	Grape	INDT	Ff, Fol, ToMV ⁰⁻²	Hybrid from Sakata with excellent crack resistance, shelf life, high Brix and yields. Sets under cooler conditions than most grapes.
	44049	Tidy Treats 🕰	50- 55	.24	Cherry	DT	FR, VW	Tons of fruit on a compact plant. Good in small-space gardens and containers.

TOMATO FRESH M	4		M=1,00	00 seeds		
Priced per package	100 Seeds	500 Seeds				
Price per 1,000 seeds (M)			1M	5M	25M	100M
44054 Myrtle	5.00	19.15	31.90			
44027P Quincy F300 Pelleted	5.00	19.15	31.90	29.00	27.60	
44161P Sebring Pelleted	5.00	19.15	31.90	29.00	27.60	
44150 Sunguard	5.00	19.15	31.90	29.00	27.60	
44023P Sunkeeper Pelleted	5.00	19.15	31.90	29.00	27.60	
* Multiple packages may b	e used to fil	l orders for t	hese quanti	ties.		

TOMATO CHERRY Hyb	rid	M=1,000 seeds						
Priced per package	100 Seeds	500 Seeds						
Price per 1,000 seeds (M)			1M	5M	25M			
44030 Aligote	30.85	102.40	170.60	162.75	155.00			
44140P BHN-268 Pelleted	43.25	143.55	239.25	227.85	217.00			
44059 Chocolate Sprinkles	23.05	76.55	127.55	121.70	115.90			
44087 Gold Spark	61.40	203.95	339.85	323.65	308.20			
44103 Husky Cherry Red	6.30	23.25	37.15	32.30	29.35			
44223 Montesino	28.85	95.80	159.60					
44165 Red Grape	27.35	90.70	151.10	144.15	137.25			
44047 Ruby Crush	39.40	130.75	217.90	207.90	198.00			
44169 SunSugar	10.30	38.00	60.75	52.80	48.00			
44021 Super Sweet 100	9.10	33.65	53.80	46.75	42.50			
44125 Sweet Gold	6.20	22.85	36.50	31.70	28.80			
44199 Sweet Hearts	55.20	183.25	305.40	290.85	277.00			
44222 Sweet Treats	52.20	173.40	289.00	275.20	262.05			
44049 Tidy Treats	12.45	41.25	68.70	65.55	62.40			
* Multiple packages may be use	d to fill orders	for these qu	iantities.					

































FORONTI NEW



TORERO



SYNERGY ROOTSTOCK



BHN-768

TOMATO	CHERRY Hybrid						
	On an Ballington		Weight ounces	Shape	Habit	Disease	Features
Open Pollinat		70	7.0		INDT		A mix of 3 colors of Bumble Bee Cherry Tomatoes. Pink, Purple and Sunrise, which is yellow with red stripes. Excellent sweet and
44068	Artisan Bumble Bee Mix	70	.78		INDT		tangy flavor, 0.7-0.8 oz fruit.
44507	44507 Red Cherry				INDT		Uniform, sweet, 1" fruit; great for home gardens.

TOI	OTAN		GREENHO	JSE 🍻	1				
		•	Use	Weight ounces	Veight _{unces} Shape Disease		Features		
NEW	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. For the highest yield potential, should be grafted onto Maxifort.		
	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. Slightly more open plant than Maxifort.		
	44185	Maxifort Rootstock		Virus; F Pyrenoc	Fol:0,1-Fusar chaeta lycope	ium oxysporum ra	in North America. Very strong vigor. High Resistance to: ToMV-Tomato Mosaic ces 0 and 1; For-Fusarium oxysporum fsp. Radicis-lycopersici (crown rot); PI- ; Va-Verticillium albo-altum; Vd-Verticillium dahliae; Ma-Meloidogyne arenaria; ogyne javanica.		
	44180	Multifort Rootstock		Provides excellent vigor for long seasons. Great pairing for varieties that require additional protection against Fusariu 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		mediun	ı and short c	cycles and non-hea	ong vigor and is well suited to balance high vigor scions. It is best suited for ted conditions. Well suited for specialty type tomatoes. High Resistance to: Ff:A-E / / Va: 1 / VW: 1 / Intermediate Resistance to: Root knot nematode / Corky root.		

TOMATO CHERRY Open Po	M=1,000 seeds				
Priced per package	100 Seeds	500 Seeds			
Price per 1,000 seeds (M)			1M	5M	
44068 Artisan Bumble Bee Mix	8.60	31.75	50.80	44.15	
Priced per package	1/2 oz	1 oz	4 oz	1#	
44507 Red Cherry	6.95	10.40	35.85	99.50	

TOM	IATO GREENHOUSE		M	=1,000 seeds
	Priced per package	100 Seeds	500 Seeds	
	Price per 1,000 seeds (M)			1M
44026	Caiman	35.20	135.30	225.50
44093U	Foronti Untreated	116.85	449.35	748.85
44020U	Torero Untreated	110.70	425.65	709.35
44198	Arnold Rootstock	47.00	180.70	301.15
44185U	Maxifort Rootstock Untreated	43.55	167.50	279.10
44180U	Multifort Rootstock Untreated	43.55	167.50	279.10
44058	Synergy Rootstock	50.00	192.15	320.25
	* Multiple packages may be used to fill	orders for these qua	antities.	
	Other Tomatoes & Cucs for greenhouse	production are avail	able. Ask us.	





MONTICELLO



SAN MARZANO

VEGETABLE ROOT INOCULANT

Naturall[™] for Vegetables contains proprietary and patent pending biologicals that colonize the root system of plants. Crop stress such as disease and dry

weather can be alleviated, and often systemically, so that root colonization by this treatment can affect the physiology of the whole plant resulting in higher yields. See page 150 for application rates and pricing.

TOMATO			PROCESSING / SALADETTE Hybrid							
	*	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.		
44062	BHN-1045	75	FM, S	4	F	DT	FR ^{1,2,3} N, SW, TYLC, VW	The newest BHN Roma release. BHN1045 has uniform large fruit and a deep blocky shape. A strong determinate plant with an excellent disease package. An all-around improved BHN410.		
44176	Mariana	74	FM	4 - 5	F	DT	ASC, FR ^{1,2} , N, VW	A blocky, Roma type with thick walls and very good external and internal fruit color. Excellent firmness and shelf life.		
44224	Monticello	74	FM	4 - 5	F	DT	ASC, FR ^{1,2} , N, VW	High disease package. Suitable for the northern and central growing regions of the Eastern U.S.		
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.		

Natural

ТОМАТО		ОР	ОР							
	•	Days	Features							
44510	Ace 55 VF	80	Disease-resistant Ace strain.							
44506	44506 Beefsteak 44529 Delicious		Also known as Red Ponderosa or Crimson Cushion. Fruits are large, flattened, and irregular shaped.							
44529			Large 1 lb. fruit with overall high quality. Nearly solid interiors with very small seed cavity.							
44502	44502 Jubilee Golden		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.							
44509	Rutgers	75	Bright red, medium large and smooth, globed-shaped fruit. A popular garden variety.							
44525	Yellow Pear	75	Mild sweet flavor, uniform fruit 1 ½ inches long.							

	IATO PROCES Priced per package	100 Seeds	500 Seeds					
Price	e per 1,000 seeds (M)			1M	5M	25M	100M	
44062P	BHN-1045 Pelleted	16.50	63.35	105.55	95.95	91.35	87.00	
44176P	Mariana Primed Pelleted	12.70	48.70	81.15	73.75	70.20	66.85	
44224P	Monticello Pelleted	11.65	44.80	74.65	67.85	64.60	61.50	
44091	San Marzano	14.05	53.90	89.80	81.60	77.70	74.00	
Special Value Priced: Roma Types for either Bedding Plants or Market. Excellent substitute for either Roma Hybrid or Hybrid 882								
44202P	BHN-768 Pelleted	4.75	18.25	30.40	27.60	26.25	25.00	
	* Multiple packages may	be used to	fill orders fo	or these quar	itities.			

TOMATO O	P				
	Priced per package	1/2 oz.	1 oz.	4 oz.	1#
44510 Ace 55 V	/F	8.35	12.55	43.20	120.00
44506 Beefstea	k	6.30	9.40	32.40	90.00
44529U Deliciou	S Untreated	7.90	11.85	40.80	113.30
44502 Jubilee	Golden	7.90	11.85	40.80	113.30
44504 Marglob	e	8.35	12.55	43.20	120.00
44508 Roma VF	:	7.65	11.50	39.60	110.00
44509 Rutgers		7.65	11.50	39.60	110.00
44526 Red Pea	r	10.45	15.70	54.00	150.00
44525 Yellow P	ear	10.45	15.70	54.00	150.00

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TOMATO		HEI	HEIRLOOM						
	_	Days	Flesh Color	Use	Fruit Size	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.			
44738	Black From Tula	80	Dark Red- Black	HG	10 - 14 oz.	Good yields of brownish-red, slightly flattened globes weighing up to 14 oz. Rich full flavor, great for slicing and canning. Has been described as "the ugliest, most delicious tomato grown." Indeterminate.			
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	1 lb.	Absolutely gorgeous slicing tomato that is similar to Mr. Stripey. Sweet 4-6" flattened fruits.			
44705	Mortgage Lifter	80	Pink	HG	1 lb.	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	1 lb.	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	1			M=1,0	00 seeds
Priced per package	250 Seeds	500 Seeds*			
Price per 1,000 seeds (M)			1M	5M	10M
44723 Amish Paste	6.25	7.60	9.95	7.35	6.00
44738 Black From Tula	6.25	7.60	9.95	7.35	6.00
44701 Brandywine, Pink	6.25	7.60	9.95	7.35	6.00
44712 Cherokee Purple	6.25	7.60	9.95	7.35	6.00
44703 Currant Red	6.25	7.60	9.95	7.35	6.00
44704 Currant Yellow	6.25	7.60	9.95	7.35	6.00
44733 German Pink	6.25	7.60	9.95	7.35	6.00
44722 Green Zebra	6.25	7.60	9.95	7.35	6.00
44734 Hillbilly Potato Leaf	6.25	7.60	9.95	7.35	6.00
44705 Mortgage Lifter	6.25	7.60	9.95	7.35	6.00
44709 Old German	6.25	7.60	9.95	7.35	6.00
44726 Persimmon	6.25	7.60	9.95	7.35	6.00
44725 Prudens Purple	6.25	7.60	9.95	7.35	6.00
44737 Red Brandywine	6.25	7.60	9.95	7.35	6.00
* Multiple packages may be u	sed to fill ord	ers for these qu	uantities.		



Naturall

VEGETABLE ROOT INOCULANT

Naturall[™] for Vegetables contains proprietary and patent pending biologicals that colonize the root system of plants. Crop stress such as disease and dry

weather can be alleviated, and often systemically, so that root colonization by this treatment can affect the physiology of the whole plant resulting in higher yields. See page 150 for application rates and pricing.



SAVE WITH CASH DISCOUNTS

Cash discounts are available throughout the season and are a great way to add money to your bottom line.

See page 154 for all of the details.

 November
 .7%

 December
 .6%

 January
 .5%

 February
 .4%

 March
 .3%

 April
 .2%

TURNIPS	/ RUTABAGA		
	•	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 in these package sizes			1#	5#	50#
45006 Alamo	13.15	43.10	120.50	120.00	
45003 All Top	10.00	32.75	91.50	91.00	
45002 Just Right	16.05	55.80	155.95	154.95	
45903 Laurentian Rutabaga	3.70	12.85	35.85	34.85	
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		6.95	17.00	16.50	16.00
45001 Tokyo Cross	21.80	75.70	211.65	210.65	
45004 Topper	12.85	42.05	117.50	117.00	
45507U White Egg Untreated		6.95	17.00	16.50	16.00
49011 White Lady	19.95	65.25	182.50	182.00	

































WATERMELON

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

ESTRELLA

SANGRIA

JADE STAR

YELLOW DOLL

WATERMELON	LA	RGE Hybri	d					
•	Day	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 163	80	Long Blocky	20 - 24	Allsweet	Bright Red	Small	A, F	Excellent flavor and texture. Plants are typically vigorous with large leaves. Uniform fruit.
46088 Jamboree 163	88	Elongated	25 - 27	Allsweet	Deep Red		A, F	An excellent choice when size commands a premium! Produces large, very uniform fruit.
46030 Sangria 163	85	Elongated	18 - 22	Allsweet	Bright Red	Large	A, F	Good field performance with excellent taste.
46009 Starbrite 163	85	Oblong	22 - 31	Dark Green / Light Green Stripes	Bright Red		A ¹ , F	A Seminis high yielding hybrid with an oblong shaped fruit. Rind is tough and resilient for long distance shipping.
46072 StarGazer 163	85	Elongated	24 - 28	Allsweet	Red	Large	A¹, F	An elongated Allsweet type hybrid, from Seminis, that is more uniform when compared to other Allsweet hybrids.

WATERM	ELON	ICE	вох						
	•	Days	Shape	Weight pounds	Rind Type	Flesh Color	Seed Size	Disease	Features
46051	Jade Star Pata Negra 163	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 163	68	Oval	5 - 7	Medium Green / Dark Stripes	Yellow	Small		Unusual, very sweet home garden hybrid. Crisp flesh.

WATERMELON LARGE H	ybrid		M=1	,000 seeds
Priced per package	250 Seeds			
Price per 1,000 seeds (M)		1M	5M	10M*
46124 Compadre	26.65	68.75	63.75	58.75
46041 Estrella	41.10	106.00	101.00	96.00
46088 Jamboree	39.65	102.20	97.20	92.20
46030 Sangria	43.25	111.50	106.50	101.50
46009 Starbrite	30.10	77.65	72.65	67.65
46072 StarGazer	36.05	92.95	87.95	82.95

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

WATERMELON ICEBOX	ERMELON ICEBOX					
Priced per package Price per 1,000 seeds (M)	250 Seeds	1M	5M	10M*		
46051 Jade Star	38.75	99.25	98.25	97.25		
46005 Yellow Doll	40.90	104.75	103.75	102.75		

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

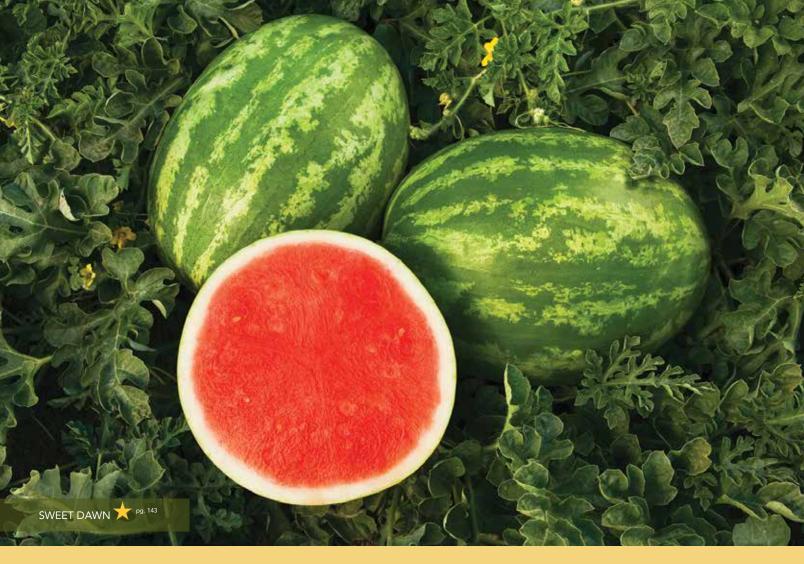
DOCUMENTS REQUIRED

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 we not purchasing. document for the product you are purchasing.

*REQUIRED for all watermelon prior to shipping.



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



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.







DARK KNIGHT



EL CAPITAN



EXCLAMATION



FASCINATION



JOY RIDE MELODY



ORANGE CRISP



ROAD TRIP



SWEET DAWN



111	

WATERMELON TRIPLOID Hybrid							Pricing on page 144
	_	Days	Shape	Weight pounds	Rind Type	Flesh Color	Features
46093	Amarillo 163	82	Globe	13 - 15	Tiger Stripe	Yellow	A Syngenta melon with deep yellow flesh and less tendency to hollow heart.
46001	Bold Ruler 163	83	Round / Oval	16 - 18	Crimson Sweet	Bright Red	A high quality seedless with early set in cool conditions. Very high yield and excellent fruit uniformity. Must be planted with an early pollinator like Ace Plus.
46049	Dark Knight 163	80	Globe	14 - 17	Dark Green	Dark Red	Dark Knight is eye-catching with its globe shape and dark green smooth exterior. Dark red flesh with medium firmness. Slightly larger fruit size than Sweet Gem.
46052	El Capitan 163	85- 90	Blocky Oval	16 - 20	Wide dark green stripes	Deep Red	A newer 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 163	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 163	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.
46026	Joy Ride 163	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 163	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 163	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!
46029	Road Trip 163	84	Round / Oval	16 - 18	Dark Mottle Stripe	Bright Red	45-count hybrid watermelon with exceptional external and internal quality. Uniform in fruit shape and size. Very adaptable variety with high yield potential. Has average Brix of 11.5%.
46102	Sweet Dawn 163	76	Blocky	16 - 20	Crimson Sweet	Dark Red	Early variety that produces consistently high yields, offering growers significant first to market advantages. Firm and sweet flesh are ideal for retail markets.

Additional Triploid Watermelons can be found on the next page --->.

































SWEET GEM

UNBRIDLED

YELLOW BUTTERCUP

ACE PLUS

WILD CARD PLUS

WATERM	ELON	TRII	PLOID	Hybrid			Pricing on page 144	
	_	Days	Shape	Weight pounds	Rind Type	Flesh Color	Features	
46008	Sweet Gem 163	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.	
46018	Unbridled 163	85	Oval	18 - 22	Medium Green Background / Dark Green Stripes	Deep Red	Next generation breeding from Sakata includes this high yield potential, strong vined variety. Beautiful rind pattern and crisp, dark red flesh round out a solid product.	
46021	Yellow Buttercup 163	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 163	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								
46103	Ace Plus 1 63		Round / Oval		Light Green Background / Medium Green Stripes		Offers a very early flowering date that makes pollen available for the first female flowers produced by the triploid hybrid. Continues an elongated pollination cycle.	
46109	Wild Card Plus 0 163		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.	

WATERMELON TRIPLOII	d		M=1,0	000 seeds	
Priced per package	100 Seeds	500 Seeds			
Price per 1,000 seeds (M)			1M	5M	10M*
46093 Amarillo Yellow	67.35	269.25	460.20	452.70	447.70
46001 Bold Ruler	32.50	129.85	221.90	214.40	209.40
46049 Dark Knight	73.60	294.30	503.05	495.55	490.55
46052 El Capitan	44.00	175.95	300.70	293.20	288.20
46013 Exclamation	50.55	202.10	345.40	337.90	332.90
46140 Fascination	57.55	230.10	393.25	385.75	380.75
46026 Joy Ride	44.60	178.25	304.70	297.20	292.20
46134 Melody	55.60	222.30	379.95	372.45	367.45
46007 Orange Crisp	47.65	190.50	325.60	318.10	313.10
46029 Road Trip	43.95	175.75	300.35	292.85	287.85
46102 Sweet Dawn	58.60	234.30	400.50	393.00	388.00

WATERMELON TRIPLOID	d		M=1,0	000 seeds	
Priced per package	100 Seeds	500 Seeds			
Price per 1,000 seeds (M)			1M	5M	10M*
46008 Sweet Gem	71.00	284.00	485.45	477.95	472.95
46039 Tailgate	44.95	179.70	307.10	299.60	294.60
46018 Unbridled	36.55	146.10	249.70	242.20	237.20
46021 Yellow Buttercup	57.35	229.40	392.10	384.60	379.60
Personal Size					
46045 Sirius	45.15	180.60	308.65	301.15	296.15
Pollenizers					
46103 Ace Plus F300	30.85	123.30	210.70	203.20	198.20
46109 Wild Card Plus F300	33.60	134.40	229.70	222.20	217.20
* Multiple packages may be used to f	ill orders fo	r these qua	ntities.		

GROWER PREFERRED ALL-STARS

LARGE SEEDED

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

TRIPLOID

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. Fascination should be part of any size operation.



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. This is the melon that I go out and pick when we need one for our own table.

Sweet Gem is a great eating seedless with a "Black Diamond" look and superior flavor that will set your crop apart in the marketplace.

Brad PaulsonVegetable Consultant

WATERN	IELON	ОР						
	*	Days	Shape	Weight pounds	Rind Type	Flesh Color	Seed Size	Features
46501	Allsweet 163	90	Elongated / Oval	25 - 30	Medium Green / Thin Stripes	Bright Red	Small	Excellent fresh market variety. Firm flesh.
46502	Charleston Grey 163	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.
	Crimson Sweet 163	85	Blocky	15 - 30	Light and Dark Stripes	Brilliant Red	Medium	Popular variety for garden, market or shipping.
46507	Jubilee Improved 163	95	Elongated / Oval	25 - 35	Light Green / Dark Stripes	Medium Red	Large	Excellent late shipper.
46533	Moon & Stars 163	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 163	80	Round	8 - 10	Dark Green	Deep Red	Small	Popular home garden. Also works well as pollenizer for triploid hybrids.

WATERMELON OP

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Priced per po	ackage	1 oz.	4 oz.	1#
46501 Allsweet		5.70	19.70	52.50
46502 Charleston Grey		6.25	21.70	57.75
46504 Crimson Sweet		6.20	21.40	56.95
46507 Jubilee Improved		6.25	21.70	57.75
46533 Moon & Stars		6.55	22.65	60.40
46509 Sugar Baby		6.35	21.95	58.50

*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.

POST HARVEST FINANCING AVAILABLE

We offer a variety of financing options including 0% interest with no payments due until December 2023.

The best rates are available before 12/31/2022.

See page 155 for all of the details on how to take advantage of this payment option.



JOHN DEERE FINANCIAL A

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RUPP KNIT HAT

RUPP HOODIE

RUPP CAMO CAP

RUPP KHAKI & BLACK CAP

RUPP RED & GRAY

BLACK CAP	CAP

RUPP CLOTH	ING			
	*	Regular Sizes	Tall 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.SOLID.G3	Rupp Camouflage Solid Cap	One size fits all		This ballcap features a sloped front and a pre-formed visor. The cap is black with Realtree Hardwoods® camouflage and barbed wire accent. Rupp Seeds logo embroidered in gray.
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.
PHAT.SOLID.G7	Rupp Red & Gray Solid Cap	One size fits all		This ballcap features a sloped front and a pre-formed visor. The cap is red and gray with Rupp Seeds logo embroidered in white on the front and our "See What Good Yields*" tagline on the back.
	Please allow 3-4 weeks for delivery on clo	thing.		
	·			·

RUPP CLOTHING	RECO	RECOMMENDED SIZE CHART								
	xs	s	М	L	XL	2XL	3XL	4XL	5XL	6XL
Men's Size	30-32	34-36	38-40	42-44	46-48	50-52	54-56	58-60	62-64	66-68
Ladies Size	2-4	6-8	10-12	14-16	18-20	22-24	26-28	30-32		
Size Code**	Χ	S	М	L	1	2	3	4	5	6

 $[\]ensuremath{^{**}}$ Use item number plus size code. Add a 'T' to the end for tall sizes.

CLOTHING

	XS	S	М	L	XL	2XL	3XL	4XL	5XL	6XL
Size codes	х	s	М	L	1	2	3	4	5	6
PJKT.SWT.HD Rupp Hoodie Sweatshirt		30.00	30.00	30.00	30.00	32.00	32.00			
PHAT.KNIT.1 Rupp Knit Hat	15.00									
PHAT.SOLID.G3 Rupp Camouflage Cap	12.50									
PHAT.SOLID.G7 Rupp Red & Gray Cap	12.50									
PHAT.MESH.G5 Rupp Khaki & Black Mesh cap	12.50									
Prices include shipping. Allow 3-4 weeks for	delivery.									
Cash discounts are not available on clothing	J.									

Rupp Seeds Inc. · www.ruppseeds.com





BENTLEY 500 PACK **BENTLEY 250 PACK**







4 OZ. PACKET

BENTLE	Y PACKET STANDS	
	*	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, 2023. Thirty day lead time is needed. Non-returnable! Pricing includes

BENTLEY PACKET STANDS

	Priced per stand	1 Stan
VP500A 500 pack Assorted - V,F,H		370.0
VP500V 500 pack Vegetables & Her	b	370.0
VP500F 500 pack Flowers		370.0
VP250H 250 pack Herbs		270.0
Pricing includes shipping charges.		

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, 2023.

POINT OF SALE

Seed Packets	Priced per box of 500 packets	Вох
VPOS.PACKET.1Z 1 oz seed	packets - 3 1/4" x 4 3/4"	40.00
VPOS.PACKET.4Z 4 oz seed packets - 4 5/8" x 6 7/8"		60.00
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 no available for you to make your own cells		ng blank plates

POPPING CORN	Resell in your	Resell in your market!					
*	Features						
VPOP.SUNBURST Rupp Golden Suni	bus Just for leave	we popcorn chosen for its outstanding popping expansion, tenderness and flavor. An exceptional ne use. Available in cases of 15 - 2 lb. bags in our attractive package ready for retail shelves, or r larger users.					
VPOPWHDELIGHT Runn White Delig		of Golden Sunhurst. Same great popping and eating quality. Only available in 50 lb hags					

POPPING CORN		
Priced per case	Case	
Priced per 50 pounds (includes shipping))		50#
VPOP.SUNBURST Golden Sunburst Popping Corn	88.50	115.00
VPOP.WHDELIGHT White Delight Popping Corn		117.50
A case consists of 15, 2# packages		
<u>Please Note</u> : Prices include shipping.		













PLANTING (GUIDE								
•		Seeding Rate	i		Seed or Plant	Spacing			
	Seeds per Pound	per Acre by Weight	per Acre in 1000s	Seeds per 1000 foot of Row	In Row	Between Rows	Depth	Recommended Soil Temperature	Days to Germination
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"	.35"	60 - 75°F	6 - 10
Brussels Sprouts	80,000 - 128,000	1 - 1.4 oz	7.6 M	500	24"	36"	.5 - 1"	60 - 75°F	6 - 10
Cabbage	107,000 - 128,000	1.9 - 2.2 oz	15.2 M	1,000	12"	36"	.35"	50 - 60°F	6 - 10
Cantaloupe	15,000 - 20,000	4 - 4.8 oz	3.8 - 6.1 M	500 - 667	18 - 24"	60 - 72"	.5 - 1"	75 - 85°F	7 - 12
Carrots	320,000 - 410,000	2 - 2.1 lbs	653.2 - 871 M	24,000	.5"	15 - 20"	.5"	50 - 85°F	8 - 12
Cauliflower	116,000 - 128,000	1.1 - 1.3 oz	7.6 - 10.1 M	500 - 667	18 - 24"	36"	.3"	50 - 77°F	6 - 10
Celery	960,000 - 1,417,500	0.5 - 0.8 oz	45.4 M	2,000	6"	24"	.1"	65 - 70°F	21 - 25
Collards	90,700 - 144,000	1.3 - 1.8 oz	10.1 - 12.1 M	667 - 800	15 - 18"	36"	.35"	60 - 75°F	6 - 10
Cucumber	16,000 - 18,000	0.6 - 1 lbs	10.1 - 18.2 M	667 - 1,000	12 - 18"	30 - 36"	.5 - 1"	60 - 95°F	7 - 10
Eggplant	96,000 - 110,000	1 - 1 oz	5.5 - 6.9 M	600 - 750	16 - 20"	60"	.25"	85 - 90°F	10 - 14
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"	.255"	60 - 75°F	6 - 10
Kohlrabi	123,000 - 144,000	1.9 - 2.7 oz	15.2 - 24.2 M	667 - 800	15 - 18"	18 - 24"	.255"	60 - 75°F	6 - 10
Leeks	144,000 - 151,000	1.1 - 1.4 lbs	163.3 - 204.2 M	6,000	2"	16 - 20"	.5"	65 - 95°F	10 - 14
Lettuce	364,000 - 432,000	3 - 3.4 oz	68.1 - 90.8 M	3,000	4"	18 - 24"	.35"	50 - 75°F	2 - 7
Mustard	204,000 - 272,000	4 - 5.3 oz	68.1 M	1,500	8"	12"	.3"	60 - 75°F	5 - 8
Okra	7,800 - 8,000	1.1 - 1.3 lbs	8.7 - 10.1 M	667	18"	36 - 42"	1"	65 - 95°F	7 - 18
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"	.35"	32 - 75°F	18 - 25
Peas	2,200 - 2,400	41.2 - 90.7 lbs	90.8 - 217.8 M	6,000 - 12,000	1 - 2"	30 - 36"	1.5 - 2"	40 - 86°F	6 - 10
Pepper Twin row on plastic	64,000 - 76,000	2.2 - 2.6 oz	9.1 - 12.1 M	500 - 667	18 - 24"	12"	.35"	65 - 86°F	10 - 14
Pumpkin	3,000 - 3,200	0.6 - 1.2 lbs	1.9 - 3.8 M	333 - 500	24 - 36"	72 - 96"	.5 - 1"	70 - 80°F	7 - 10
Radish	45,000 - 48,000	12.1 - 15.1 lbs	544.4 - 725.8 M	12,000	1"	9 - 12"	.58"	60 - 85°F	5 - 8
Spinach	39,000 - 48,000	3.7 - 11.3 lbs	145.2 - 544.4 M	4,000 - 12,000	1 - 3"	12 - 15"	.5"	32 - 60°F	7 - 10
Squash Summer	2,500 - 6,000	1.7 - 1.8 lbs	4.6 - 10.1 M	500 - 667	18 - 24"	36 - 60"	.575"	70 - 80°F	7 - 10
Squash Winter	3,000 - 4,000	1 - 1.3 lbs	2.9 - 5.1 M	500 - 667	18 - 24"	72 - 96"	.575"	70 - 80°F	7 - 10
Sweet Corn	2,700 - 6,000	4.5 - 6.7 lbs	18.2 - 27.3 M	1,000 - 1,500	8 - 12"	30"	.75 - 1.5"	60 - 75°F	7 - 10
Tomato	140,000 - 165,000	0.8 - 0.8 oz	7.6 M	667	18"	48"	.255"	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

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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% <mark>(7 d)</mark>	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% <mark>(6 d)</mark>	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.





















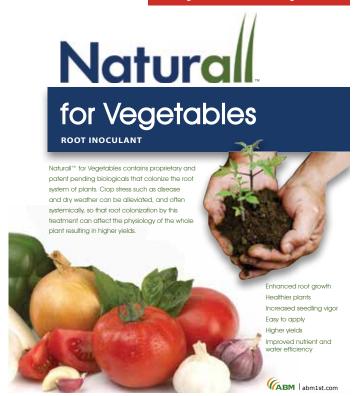








^{**} The above table was derived from experimental data. Certain logical inconsistencies exist due to crop failure or to bad batches of seed. They do not interfere with the overall interpretation.



NATURALL™ PB APPLICATION RATES									
CROPS	RATE								
Cucurbit Vegetables: Pumpkins and Squash	1.0 oz. per 80,000 seeds								
Cucurbit Vegetables: Cucumbers and Melons	0.5 oz. per 80,000 seeds								
Broccoli, Cabbage and Cauliflower	0.5 oz. per 50,000 seeds								
Peppers and Tomatoes: Garlic, Leeks, Onions, Shallots	0.5 oz. per 100,000 seeds								
Root Crops: Beets, Sugar Beets, Red Beets, Carrots, Celeriac, Chicory, Horseradish, Parsnip, Radish, Rutabaga, Salsify, Turnips	0.5 oz. per 100,000 seeds								



Net Contents: 1 oz.

INOCULANT

Priced per pouch	Each
TRT.NATRALPB.1Z Naturall PB for Vegetables 1 oz pouch	31.00
TRT.GRAPHEX Graph-Ex SA Pea and Bean Inoculant 4 oz pouch	14.00
TRT.SABREX SabrEx PB for Sweet Corn 1 oz pouch	34.50



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 & Good Handling Practices Audit

Wholesale Distribution Center/Terminal Warehouses

Various Fruits and Vegetables

Bonne J. Ball From

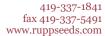
Audit ID: 40209

11/10/2021

Chief, Audit Services Branch

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







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 insures 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, 2022

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 wire transfer. Open account terms and financing is available for qualifying customers. Payment discounts are available for select payment methods and products.

Credit Card

We accept the following credit cards as payment: 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 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.

Wire Transfer

We do accept payment via wire transfers to our bank. Please contact our office for processing details.

There is a \$25.00 processing fee for wire transfers.

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/JD credit application must be completed and submitted for review. Please allow several weeks to process.

Payments on open account invoices are eligible for payment 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 for growers that provide post-harvest payment flexibility. Our premier program features 0% interest and payment isn't due until December 2023. Check the Financing Programs section for more details.

CASH DISCOUNT PROGRAM

Rupp Seeds offers a cash discount program as an incentive for early payment of your seed order or invoice. Cash discounts are available for orders over \$350.00.

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

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

Our cash discount program can be used in the following ways:

- A) Prepay on account Make a payment on your account as prepayment for your expected purchases in the coming season.
- B) Pay with order After you assemble and total your order, simply calculate and subtract the cash discount amount based on the month of payment and send a payment for the balance.
- C) Pay upon receipt of order acknowledgment You can also receive a cash discount for payment 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: seed treatments, 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 2023 on orders placed before December 31st, 2022.

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 2023. Here's a list of all the programs planned for the 2023 sales season:

Availability	Program
Through December 2022	0% Fixed
For January & February '23	3.9% Fixed
For March & April '23	$Prime^* + 1\%$
For May through August '23	Prime* + 7.25%

^{**} These are variable rate programs based on the prime rate, which was 5.5% as of 9/1/22.

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 31st, 2022, 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/JDFApp, 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 prorate 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.

Free Shipping! on orders over \$350.00

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.

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.



Vegetable Order Form

Online Orders: www.ruppseeds.com Phone Orders: 1-800-700-1199

FAX Orders: 419-337-5491

	\square Yes, I am a fir	st-time customer	Technology Li	cense Number				
Account Number			Requested Sh	ip Date				
Customer Name			Ship To					
Billing Address			Address	cal Address - no PO	Boxes)			
City								
State	Zip		State			Zip		
Email Address _			Office/Home	Phone				
☐ I have a new r	mailing address. (List old address on the back of the	order form.)	Mobile Phone					
PAYMENT MI Debit Card Credit Card Discover, Maste	rcard, Visa					Oate Lear Month Year		3-digit tion code
Check #	Card Pilling Address							
☐ Money Order Credit Cards, Debit	Cards and John Signature							
Deere Financial pay eligible for cash dis				Sorry, ı	o retur	ns — please only or	der the seed you	need.
Item No.	Variety Description / Kind	Quantity	Package Size	Price per Price per		Price per package	Extended Pr	ice
13001	Mary Washington / Asparagus	2	4 oz.			12 50	25	00
		When priced p	per package (qu	iantity x packa	ge price,) = extended price.		
02126	Ambrosia / Corn	2	5#	18	00		180	00
03235	Octane / Corn	1	2.5M	12	95		32	38
	When price	ed per LB or M (que	antity x packag	e size) x price p	er LB/N	1 = extended price.		
							•	
							• • •	
	package size. For instance, if you need 6 pounds of		Cash	Discounts! on orders	-	Total (Above)		
1 '	o order one - 1 pound package and one - 5 pound pa sizes will be at different price breaks.	скаде.		.or \$350.00		Total (Back)		
			/ see pa	age 154 for details		Order Total		
Signature		Date				edit on Account		
				(33.3)		Sub Total		
* To avoid ship	ping delays, please include all required waivers/doc	uments with vour	order.			Cash Discount is over \$350.00)		
		, .		**	Shipp	ing & Handling s under \$350.00)	\$15	00
** See the term	ns page for details on discounts and shipping charge	s		(, "		Due (US Funds)		

Item No.	Variety Description / Kind	Quantity	Package Size	Price per LB/ Price per M	Price per package	Extended Price
						:
						:
	Carry this total forward to the	front of the o	order form.		Total (Back)	





Vegetable Order Form

Online Orders: www.ruppseeds.com Phone Orders: 1-800-700-1199

FAX Orders: 419-337-5491

	\square Yes, I am a fir	st-time customer	Technology Li	cense Number						
Account Number	•	Requested Ship Date								
Customer Name			Ship To Address (Physical Address - no PO Boxes) City							
Billing Address										
City										
State	Zip		State			Zip				
Email Address _		Office/Home	Phone							
☐ I have a new r	mailing address. (List old address on the back of the	order form.)	Mobile Phone							
PAYMENT MI Debit Card Credit Card Discover, Maste	crcard, Visa					Oate Lear Month Year	verificati	3-digit ion code		
☐ Check #	Card Billing Address									
☐ Money Order Credit Cards, Debit Deere Financial pay eligible for cash dis	Cards and John Signature						double and			
Item No.	Variety Description / Kind	Quantity	Package Size	Price per Price per	LB/	Price per package	Extended Pr			
13001	Mary Washington / Asparagus	2	4 oz.			12 50	25	00		
20002	The state of the s			l Jantity x packa	ge price,) = extended price.				
02126	Ambrosia / Corn	2	5#	18	00		180	00		
03235	Octane / Corn	1	2.5M	12	95		32	38		
	When price	ed per LB or M (que	antity x packag	e size) x price p	er LB/N	1 = extended price.				
						:				
Sood is sold by	package size. For instance, if you need 6 pounds of	sweet corn		Discounts		Total (Above)				
you will need to	o order one - 1 pound package and one - 5 pound pa			Discounts!	<	Total (Back)				
These package	sizes will be at different price breaks.		O\ see pa	ver \$350.00 age 154 for details	_	Order Total				
Signature		Date		L	ess Cre	edit on Account				
Signature						n last statement)				
					-	Sub Total				
* To avoid ship	ping delays, please include all required waivers/doc	uments with your	order.			is over \$350.00)				
						ing & Handling s under \$350.00)	\$15	00		
** See the term	ns page for details on discounts and shipping charge	s			Net	Due (US Funds)				

Item No.	Variety Description / Kind	Quantity	Package Size	Price per LB/ Price per M	Price per package	Extended Price
						:
						:
	Carry this total forward to the	front of the o	order form.		Total (Back)	



Item No.	Variety Description / Kind	Quantity	Package Size	Price per LB/ Price per M	Price per package	Extended Price			
						:			
					:				
						:			
	Carry this total forward to the	front of the	order form		Total (Rack)				
Carry this total forward to the front of the order form. Total (Back)									



Item No.	Variety Description / Kind	Quantity	Package Size	Price per LB/ Price per M	Price per package	Extended Price
	Carry this total forward to the	front of the o	order form.		Total (Back)	





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

Watermelon Waiver

300./00.1199

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
<u>City</u>
State Zip
Phone #
Fax #
Printed Name
Title
Signature



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

GROWER INFORMATION - Complete	This Section – PLEASE PRINT CLEARLY	YOU, THE UNDERSIGNED GROWER, HEREBY ACKNOWLEDGE AND AGREE THAT: (1) YOU HAVE READ, UNDERSTAND, AND AGREE TO					
Grower Name (Last, First, MI)		THE TERMS AND CONDITIONS OF THIS AGREEMENT INCLUDING BUT NOT LIMITED TO THE GROWER'S LIMITED USE LICENSE(S) AND					
Farming or "Doing Business As" (d/	b/a/ Name):	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					
Address:		VOLUNTARILY ENTERING INTO THIS STEWARDSHIP AGREEMENT.					
City:	State: Zip Code:						
Business Phone:	County:						
E-mail Address:		O					
		Grower Signature Date (Individual at farm level responsible for planting)					
Return Agreement using one a copy for your records:	of the following methods – please keep						
US Growers:	CANADA Growers:	Grower Name (Please Print Clearly)					
Mail: AgCelerate P.O. Box 221679 Charlotte, NC 28222-1679 Email: Agreements@agdata.com Fax: 1-704-919-5581 Online: agcelerate com	Mail: Syngenta Seeds, LLC Attn. Stewardship P.O. Box 959 Minneapolis, MN 55440 Email: syngenta.stewardship@syngenta.com Fax: 1-800-858-8664	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

Online: agcelerate.com

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 of more of these actions).

TERM AND TERMINATION. This Stewardship Agreement, once signed by Grower and accepted by Syngenta, will remain in effect until terminated by Grower or Syngenta. This Stewardship Agreement may be terminated by either party at any time for any reason by sending written notice of termination to the other party at the address for such party specified above. In the case of termination of this Stewardship Agreement by Grower, such notice of termination must include Grower's full name and address and Grower must immediately cease using any Licensed Technology. Further, Syngenta may terminate this Agreement for failure of Grower to fully comply with the Grower Responsibilities described above. If Grower violates any terms of this Stewardship Agreement, in addition to other remedies available to Syngenta and any owner of the Patents listed above, Grower may forfeit any right to obtain a license to the Licensed Technology in the future. If this Stewardship Agreement is terminated then Grower will no longer have a right to purchase or use Seed Products, but, Grower's obligations (including but not limited to the above Grower Responsibilities) and Syngenta's rights that arose under the Agreement prior to termination shall remain in effect.

LIMITATIONS OF WARRANTIES AND REMEDIES. Grower agrees that the Limitations of Warranties and Remedies expressly stated on the Seed Product packaging shall be incorporated in this section as if set forth in full.

GENERAL PROVISIONS

- This Stewardship Agreement and the parties' relationship shall be governed by the laws of the state of Minnesota and the United States (other than the choice of laws rules).
- Grower's rights may not be transferred to any other person or entity without the prior written consent

Attributeois a trademark of a Syngenta Group Company

Syngenta Seeds, LLC P.O. Box 959, Minneapolis, MN 55440

REMEDY SWEET CORN - SUPPLEMENTAL AGREEMENT

Section A GROWER INFORMATION – Complete This Section - PLEASE PRINT CLEARLY	VOLUTUE UNDERGOINED ORGANED LIEDERY ACKNOWLEDGE AND ACCREE THAT (I)
Grower Name (Last, First, MI)	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;
Farming or "Doing Business As" (d/b/a/ Name):	AND (4) YOU ARE VOLUNTARILY ENTERING INTO THIS SUPPLEMENTAL AGREEMENT.
Address:	Grower Signature Date (individual at farm level responsible for planting)
City: State: Zip Code:	(intrividual at fairif level responsible for planting)
Business Phone: County:	
E-mail Address:	Grower Name (Please Print Clearly)
Customer ID #: (Assigned by Syngenta) Technology #: (Assigned by Syngenta)	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 Technology, your Stewardship Agreement or this Supplemental Agreement please call: 1 (877)
Dealer Name: Rupp Seeds, Inc.	GRO-CORN or 1 (877) 476-2676.
Dealer Number:(Office Use Only)	Please return the agreement back to your Dealer at:
Dealer Phone: 419-337-1841	Fax to: 419-337-5491 Mail to: Rupp Seeds, Inc. 17919 County Road B Wauseon OH 43567
Third Party Syngenta-Licensee:(Office Use Only)	Email: waivers@ruppseeds.com

This Supplemental Agreement ("Supplemental Agreement") is entered into between you ("Grower") and Syngenta Seeds, LLC ("Syngenta") and supplements the terms and conditions of your Stewardship Agreement with Syngenta (by its predecessor-in-interest, Syngenta Seeds, Inc.). By signing and returning this Supplemental Agreement without modification (other than Section A above) and pursuant to the terms of this Supplemental Agreement and the Stewardship Agreement, Syngenta grants Grower a limited license to use the proprietary technology Bt11 x MIR162 x GA21 stack (the "Licensed Technology") embedded in Syngenta's "Remedy" sweet corn seed product or in any seed product distributed by a third party Syngenta-licensee (collectively, "Seed Product"). Any proposed changes to this Supplemental Agreement other than in Section A are hereby rejected by Syngenta and shall have no effect unless approved in writing by Syngenta.

TERM AND TERMINATION. This Supplemental Agreement, once signed by Grower and accepted by Syngenta, will remain in effect until either terminated by Grower or Syngenta, or will terminated automatically upon the termination of your Stewardship Agreement. This Supplemental Agreement may be terminated by either party at any time for any reason by sending written notice of termination to the other party at the address for such party specified herein. In the case of termination of this Supplemental Agreement by Grower, such notice of termination must include Grower's full name and address. If Grower violates any terms of this Supplemental Agreement and/or Grower's Stewardship Agreement, in addition to other remedies available to Syngenta and any owner of the Patents (as defined in the Stewardship Agreement), Grower may forfeit any right to obtain a license to the Licensed Technology in the future. If this Supplemental Agreement is terminated then Grower will no longer have a right to purchase or use Seed Product, but, Grower's obligations (including but not limited to the Grower Responsibilities as set forth in the Stewardship Agreement) and Syngenta's rights that arose under the Stewardship Agreement and this Supplemental Agreement prior to termination shall remain in effect.

ACKNOWLEDGEMENT; LIMITATION OF WARRANTIES AND REMEDIES. Grower acknowledges and understands that Grower has been informed that under certain stress conditions, Remedy sweet corn may exhibit tassels and or glumes (male parts) growing out of the ear (female part) (the "Notice"). By its signature on this Supplemental Agreement, Grower acknowledges and agrees:

- Grower has been duly informed of the Notice;
- Grower accepts the Seed Product "as is", "where is" and with all faults and to assume all risks associated with use of the Seed Product and any actual or perceived impact on any crop yield or quality, and Grower will indemnify and hold harmless Syngenta and Syngenta authorized Distributors, and their respective directors, officers, employees and affiliates from any claims related, directly or indirectly, to the performance or non-performance of the Seed Product and its impact on any crop yield or quality; and
- Grower waives any and all claims and releases Syngenta and Syngenta authorized Distributors, and their respective directors, officers, employees and affiliates, from any and all liabilities relating, directly or indirectly, to the Notice and the use of the Seed Product.

GENERAL PROVISIONS.

- This Supplemental Agreement and the parties' relationship shall be governed by the laws of the State of Minnesota and the United States (other than the choice of laws rules).
- Grower's rights may not be transferred to any other person or entity without the prior written consent of Syngenta.

Syngenta Seeds, LLC Attn: Attribute Stewardship 11055 Wayzata Blvd., Minnetonka, MN 55305 Email: syngenta.stewardship@syngenta.com Fax: 1-800-858-8664



MULTI-USE ACCOUNT AGRICULTURAL, COMMERCIAL & GOVERNMENTAL APPLICATION

CR3910372 Litho in U.S.A. (22-09)

When your application is completed your John Deere Financial Merchant can fax it to 1-800-732-0251.	
PLEASE TELL US ABOUT YOUR BUSINESS. Fields marked with an asterisk (*) are required by law (USA PATRIOT ACT). Your application cannot be processed without	it this information.
Your Business Structure Sole Proprietor, Corporation, General Partnership, Limited Partnership, Limited Liability Company, Non-Profit, Government)	
Your Primary Use Agricultural Commercial (Non-Ag) Governmental Other	
Check all that apply: Parts & Service Crop Inputs	
*Organization Legal Name (Do not abbreviate)	
(Or) *Individual's Legal First Name Middle Initial	
*Last Name Suffix *Date of Bi	rth
*Social Security # *Tax ID #	Are you a U.S. Citizen? ☐ Yes ☐ No
Applicant's Phone #	Are you a old read
Email Address	<u> </u>
*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 o	rganization. If applicable, signature required below.)
*First Name Middle Initial *Last Name	
*Physical Street Address	
*City	
*Social Security # *Date of Birth / /	
CO-APPLICANT/SPOUSE INFORMATION (Required if spouse or person other than Primary Owner identified above has an interest in farming operation or assets listed on page 2 and	d is also a co-applicant. If applicable, signature required below.)
*First Name Middle Initial *Last Name	
*Physical Street Address	
*City	
*Social Security # \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
APPLICANT FINANCIAL INFORMATION (Individual applicants are not required to disclose income derived from alimony, child support, or separate maintenance payments unless the determining creditworthiness.) Incomplete information may results in a reduced credit limit.	e applicant wants John Deere Financial, f.s.b. to consider it in
APPLICANT FINANCIAL INFORMATION (Individual applicants are not required to disclose income derived from alimony, child support, or separate maintenance payments unless the determining creditworthiness.) Incomplete information may results in a reduced credit limit. Assets Liabilities Annual Gross Sales	e applicant wants John Deere Financial, f.s.b. to consider it in
APPLICATO FINANCIAL INFORMATION determining creditworthiness.] Incomplete information may results in a reduced credit limit.	e applicant wants John Deere Financial, f.s.b. to consider it in
APPLICANT FINANCIAL INFORMATION determining creditworthiness.) Incomplete information may results in a reduced credit limit. Assets Liabilities Annual Gross Sales	e applicant wants John Deere Financial, f.s.b. to consider it in
ASSETS Liabilities Annual Gross Sales Total Crop Production Acres Years In Business	
Assets Liabilities Annual Gross Sales Total Crop Production Acres Years In Business Primary Operating Lender City City City City City City City City	
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Continue for a total credit limit request over \$250,000¹. In addition, please attach the most recent years' lender-prepared balance sheets with supporting schedules and the most recent year income statement (or equivalent such as a schedule F).²

For a credit limit over 500,0001, please attach the two most recent years' lender-prepared balance sheets with supporting schedules and the two most recent income statements (or equivalent such as a schedule F). 2

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

Multi-Use A	Account Ap	plication - Pa	ige 2 Ap	plicant Na	me						Page 2
Crop Production	on Informatio	on									
1. Owned						2. Owne	ed Tillable Acres:				
3. Total S	hare Rent Acres	s:			_	4. Your S	Share Rent Acres:		+		
5. Total C	ash Rent Dollar	rs Paid Per Year:	\$		_	6. Total	Cash Rent Tillable Ac	res:			
						Your Share	e of Total Crop Produ	ction (2+4+6):			
First Crop	Acres	Estimated Cost/Acre	% Irrigated	Avg Yield	Double Crop	Second Crop		ance Coverage oe & %	_	Contracted Cr Price	_
Corn			0/				CAT/YP/RP/RPF/C	GRIP/GRP	%	\$	%
			%							* \$	
Soybeans			%				CAT/YP/RP/RPE/O				
Wheat			%							\$	
Cotton			%					GRIP/GRP		\$	
Peanuts			%					GRIP/GRP			
			%					GRIP/GRP		\$	
			%				CAT/YP/RP/RPE/C	GRIP/GRP	%	\$	%
Crop Insurance	-	mation	Dhone: I	١							
-											
•		ding Sources (e.		-	+ l imi+	C.	ront Palance	De	Torre		
							rent Balance				
							rent Balance				
				Credi	t Limit	Curr	rent Balance	Repayment	lerms _		
Livestock Proc Herd Size	duction Infor	mation	Annual Prod	uction						Estimated Annua	al Revenue
Sows					ually	#of feede	r sold annually			\$	
Beef Cat	tle						r sold annually			\$	
Dairy Cat				milk sold ann		#01 10000	1 301a amilaany				
-	itie				ually					\$	
Poultry			#sold	•						\$	
Other			#sold	annually						\$	
(specify)											
Skip portion	n below if p	roviding lende	r-prepared l	palance she	et(s).						
Balance Sheet Dat	e		_ A	SSETS						LIABILITI	ES
Cash, Checking, Sa	avings		\$			CCC Loans	S		\$		
Securities						Operating	Principal				
Accounts Receivab	ole					Accounts	Payable				
Investment in Grov	wing Crop		\$			Intermedi	ate Debt Due in Next	12 Months	\$		
Feed & Grain Inver	ntory		\$			Long-Tern	n Debt Due in Next 1	2 Months	\$		
Market Livestock			\$			Leases			\$		
Government Paym		2	\$			Misc. Curr	rent Liabilities		\$		
Other Current Asse			\$			Specify					
Specify			0				Tabile		٠.		
	10	tal Current Assets	<u>U</u>				iotai Ci	ırrent Liabilities			
Breeding Livestock						,	able – Specify				
Machinery & Equip	oment		\$			Machinery	y & Equipment Loans		\$		
Vehicles						Vehicle Lo	oans				
Other Intermediat			\$			Other Inte	ermediate Debt		\$		
Specify			. 0			Specify	T . II .		. 0		
	fotal In	termediate Assets	; \$ <u>U</u>				íotal Interi	mediate Liabilities	; \$ <u>U</u>		
Real Estate Value			\$			Mortgage					
Buildings			\$			Other Lon	ng-Term Debt		\$		
Other Long-Term A			\$			Specify					
Specify			_								
	Total L	.ong-Term Assets					Total Lon	g-Term Liabilities			
		TOTAL ASSETS	\$ <u>0</u>					TOTAL LIABILITIES	\$ <u>0</u>		

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. In order for Beneficial Owners to be able to access an account, they must also be an applicant or co-applicant or otherwise have documented authorization from the accountholder.

The information provided below will not be used to make a credit bureau inquiry for these individuals and does not infer that these individuals could be held personally liable for this account.

a.	Name and Title of Natural Person Opening Ac	count			
	NAME OF PERSON OPENING TITLE				
b.	Name and Address of Legal Entity for Which t	he Account is Being Opened:			
	LEGAL ENTITY NAME	PHYSICAL ADDRESS			
	CITY	ST ZIP+4	BUSINESS PHONE NUMBER		
C.	The following information for <u>each</u> individual, or otherwise owns 25 percent or more of the	equity interests of the legal ent	ly, through any contract, arrangement, understar ity listed above: ition, please write "Not Applicable.")	nding, relationship	
1	OWNER NAME #1	PHYSICAL ADDRESS	CITY	ST ZIP+4	4
	/ / / / / / / / / / OWNER #1 DATE OF BIRTH SOCIAL SECU	/ OR_ JRITY # (U.S. PERSONS) PASSPORT #	COUNTRY COUNTRY OF ISSUANCE (NON-U.S. PERSONS) ¹	_	
	OWNER NAME #2	PHYSICAL ADDRESS	CITY	ST ZIP+	4
2					
	OWNER #2 DATE OF BIRTH SOCIAL SECU	OR JRITY # (U.S. PERSONS) PASSPORT #	COUNTRY F AND COUNTRY OF ISSUANCE (NON-U.S. PERSONS) ¹		
	OWNER NAME #3	PHYSICAL ADDRESS	CITY	ST ZIP+	4
3					
	OWNER #3 DATE OF BIRTH SOCIAL SECU	OR JRITY # (U.S. PERSONS) PASSPORT #	COUNTRY F AND COUNTRY OF ISSUANCE (NON-U.S. PERSONS) ¹		
	OWNER NAME #4	PHYSICAL ADDRESS	CITY	ST ZIP+	4
4					
	OWNER #4 DATE OF BIRTH SOCIAL SECURITY #	OR ———— # (U.S. PERSONS) PASSPORT # AND	COUNTRY OF ISSUANCE (NON-U.S. PERSONS) ¹	_	
d.	□ An executive officer or senior manager (e.g. President, Vice President, Treasurer); or	, Chief Executive Officer, Chief I	managing the legal entity listed above, such as: Financial Officer, Chief Operating Officer, Managi	ing Member, General Part	ner,
	☐ Any other individual who regularly performs		on "c" above may also be listed in this section "d.")		
	(п арргорп				
	NAME/TITLE	PHYSICAL ADDRESS	CITY	ST ZIP+4	4
	/	OR	COUNTRY FAND COUNTRY OF ISSUANCE (NON-U.S. PERSONS) ¹		
I.			reby certify, to the best of my knowledge, that the in	formation provided above i	is
co	mplete and correct.	paration opening the recounty, he			-
	gnature:				
Le	gal 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. Multi-Use Accounts are a service of John Deere Financial, f.s.b.

APPLICATION PAGE 3 - BENEFICIAL OWNER INFORMATION OF LEGAL ENTITIES

This page is to be completed by the person opening a new account on behalf of a legal entity when either the total credit limit needs exceed \$50,000 or for requests less than \$50,000 if you intend to fax or mail your application directly to John Deere Financial.

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 0 individuals (every owner has less than a 25% equity interest in the legal entity) to 4 individuals (4 people with equal 25% 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.



MULTI-USE 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 nayment 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:	0.047671%	0.053151%	17.40%	19.40%

The above rates are correct as of the date of printing, 09/01/2022, 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 purchases. 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 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

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:

LEGAL ENTITIES

PROSPECTIVE PREFERRED CUSTOMERS

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 purchases with deferred payments, often until after harvest.

The total credit limit consists of a Regular and Special Terms credit limit²; the Regular credit limit is required to be a minimum of \$100.00.

Page 3 is the Beneficial Owner Form. It is not required for application review but must be completed and sent to John Deere Financial within seven days to ensure continued purchasing ability.

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WHAT COMBINED CREDIT LIMIT (REGULAR AND SPECIAL TERMS) IS REQUESTED?						
Up to \$250,000 ¹	\$250,001 - \$500,0001	Over \$500,000¹	Over \$2,000,000¹			
Complete Page 1 of the application if your Dealer/Merchant location is submitting the application by phone, online, or via fax with the electronic sheet. Complete Page 1 and Page 3 of the application if you intend to fax or mail the application directly to John Deere Financial or the credit limit exceeds \$50,000.	Complete Pages 1, the production information of Page 2, and Page 3 of the application. In addition please attach the most recent year lender-prepared balance sheet with supporting schedules and the most recent income statement (or equivalent such as a schedule F)*.	Complete Pages 1, 2 and 3 of the application and include the two most recent years' lender-prepared balance sheets with supporting schedules for the entity, and the two most recent years' income statements (or equivalent such as a schedule F)*.	Complete Pages 1, 2 and 3 of the application and include the two most recent years' accountant reviewed or audited financial statements*.			

SOLE PROPRIETORS

PROSPECTIVE PREFERRED CUSTOMERS

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 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.

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.					
WHAT COMBINED CREDIT LIMIT (REGULAR AND SPECIAL TERMS) IS REQUESTED?					
Up to \$250,000¹	\$250,001 - \$500,0001	Over \$500,000¹	Over \$2,000,000¹		
Complete Page 1 of the application.	Complete Page 1 and the production information of Page 2 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 Pages 1 and 2 of the application and include the two most recent years' lender-prepared balance sheets with supporting schedules. If applicable, include the same information for co-applicant, including spouse.	Complete Pages 1 and 2 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).

NOTICE: Please detach and retain the terms and conditions page of the application for your records. It is not necessary to fax or mail this page to John Deere Financial.

After you have completed the application and gathered any additional attachments, please take your information to any local John Deere Financial dealer or merchant to apply in person. Or select from the following options:

Fax: 1-800-732-0251

Mail: John Deere Financial P.O. Box 5328 Madison, WI 53705-0328 **Questions?** Call 1-800-356-9033 for assistance from a John Deere Financial Customer Service Representative.

When mailing your completed application to John Deere Financial, you may opt to fold and seal the application using the postage-paid address panel or seal the documents into your own envelope for added security. When mailing balance sheets or other required information for credit lines over \$250,000, please use an envelope to ensure the safety of your documents.

¹ John Deere Financial reserves the right to request additional information if needed.

² The Special Terms 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.







RUPP















PRSRT STD U.S. POSTAGE PAID TOLEDO, OH PERMIT NO. 242

We've added 26 new products to our 2023 catalog!

Each one offers improvements such as eating quality, yield, disease resistance, and market suitability. Check the inside front cover for a complete list of new products.















