

2024



# CATALOG & RESOURCE GUIDE

**NEW** NEW PRODUCTS FOR 2024



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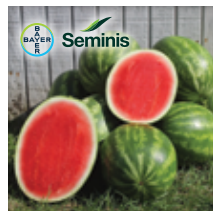
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Dear Grower,

It's Tuesday, October 3rd, and on my drive to our farm this morning, a brilliant sunrise was highlighting ribbons of low hanging fog that was flowing along the contours of the fields awaiting harvest. I am amazed at the beauty of creation!

As I parked, I found myself running through a list of what I needed to tackle, along with everything else that was taking place this week – final catalog preparations are underway, the breeding team is collecting seeds from their 1,000s of hand pollinations this summer, seed increases are being harvested, the warehouse is getting ready, and much more.

On the heels of these thoughts, I was reminded, and then celebrating – we have an awesome team!

Many of you already know from your interactions with our outside sales team – their experience is invaluable. And you've certainly received great care from our inside sales team as they've helped you with your order. But you need to know that the rest of our team is just as wonderful and capable and motivated to do all they can to help you succeed.

As you know, there are many factors that can impact the health and yield of a crop. Nature will even occasionally throw a curve ball into the mix, such as smoke, that may impact a crop in unexpected ways. And costs of production and uncertain markets can make profitability a concern.

Even so, I trust you've met with success this past growing season. And I hope that when you reflect on the season, you'll have much to be thankful for and encouraged by.

Please be assured that we're keeping these challenges in mind as we carefully review and select products. We're looking for great products at various price points to provide you with options, doing what we can to help you manage your costs of production.

Also, we're continuing to offer our cash discount program and post-harvest financing programs to help you manage your cash flow options through the season.

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

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

Please let us know how we can serve you better as we partner together.

Sincerely,



Philip Rupp

President



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

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

## 5 WAYS to ORDER\*

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

### PHONE

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

### ONLINE

www.ruppseeds.com

### FAX

419-337-5491

### MAIL

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

### EMAIL

orders@ruppseeds.com

Additional ordering information can  
be found on page 156.

## CASH PAYMENT DISCOUNTS

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

## POST HARVEST FINANCING

Our premier John Deere financing program features 0% interest until December 2024 on orders placed before December 31, 2023. Additional programs are available through the season. **See page 155 for details.**

## FREE SHIPPING

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

## INSIDE SALES



Kristen: x7098



Marie: x9011



Maryn: x9013



Nicole: x9002



Pete: x9003



Roman: x9017



Sarah: x7091

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## ICON KEY

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



### Documents Required

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



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



**Game Changers** - An item marked as a Game Changer is one that is gaining some traction with growers either through early release trialing or as a result of giving a new product a try. These products have the potential to become tomorrow's All Stars and bring something special to the table. These are "must try" products in this crop type.



### Grower Preferred All-Stars

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



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



**New** - Most often this is a new release, but it can also be new to our lineup and not new in the market. Progressive growers that are producing 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.

**Gynocious** - (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. SE 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 2024. 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?

This edition of our catalog features over 1,000 varieties in over 43 vegetable crops. We consider most of these varieties as suitable for professional and commercial growers, while a few others are included because they're popular heritage varieties.

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

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

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

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

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

Yes, Rupp Seeds is GAP certified. A copy of the certificate can be found on page 151.

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

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

We've consulted with food safety experts to understand what we can do to assist our customers with their audit preparations. They've recommended that we provide a Letter of Guarantee that briefly describes our practices and they've assured us this letter is acceptable in any food safety audit. We've included the letter in this catalog for your convenience. See page 150 for a copy.

## Are all of your seeds treated?

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

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

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

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

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

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

Of the more than 100 varieties of sweet corn roughly 20% are GMO. These include the Performance Series, Attribute, Attribute Plus, and Attribute II varieties listed on pages 30 - 32.

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

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

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

Pricing table example. "U" indicates untreated seed.

ASPARAGUS		M=1,000 seeds				
Priced per package		100 Seeds	500 Seeds			
Price per 1,000 seeds (M)				1M	5M	15M
13007U	Walker Deluxe <sup>untreated</sup>	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 hand-picking. 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



BA0999



BRONCO



DARK HORSE **NEW**



DESPERADO



JADE II ★



MOMENTUM



OUTLAW

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



SYBARIS ★



VALENTINO

ASPARAGUS	
Features	
13001	<b>Mary Washington</b> <i>An early, rust resistant selection that is heavy yielding. Used primarily for the home garden.</i>
13007	<b>Walker Deluxe</b> <sup>F1</sup> <i>Tight headed spears with slightly purple bracts. Impressive yields. High disease tolerance. Used for fresh market and processing.</i>

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

BEANS		BUSH GREEN Fresh Market					Pricing on page 8	
▲		Days	Pod Length	Pod Color	Seed Color	Use	Disease	Features
07147	<b>BA0999</b>	50	5 ½"	DG	White	FM, S	BBS, N	<i>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.</i>
07043	<b>Bronco</b>	58	5 ½"	DG	White	FM, S	BV <sup>1</sup>	<i>High yielding. For market or shipping.</i>
<b>NEW</b>	07120 <b>Dark Horse</b>	58	5 ¼"	DG	White	FM, S	BV, A, HB, R	<i>Dark Horse is a new high quality bean with dark green, straight pods and good upright plant habit. Expect a 3-4 sieve bean with improved standability that produces high-quality pods.</i>
	07033 <b>Desperado</b>	53	5 ½"	DG	Brown	FM, S	BV	<i>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.</i>
★	07155 <b>Jade II</b>	60	6 ½"	DG	White	FM, S	BV, CTV, R	<i>Improvement to Jade - darker beans and better seed quality. Long, straight pods which grow in a less concentrated set.</i>
	07005 <b>Momentum</b>	56	5 ¾"	DG	White	FM, S	BV	<i>An upright bush style variety. Produces a concentrated set of straight pods with outstanding yields and is widely adapted to most growing regions.</i>
	07024 <b>Outlaw</b>	57	5 ¼"	DG	White	FM, S	BV	<i>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.</i>
★	07148 <b>Sybaris</b>	55	5 ½"	VDG	White	FM, S	BV, R	<i>Sets shiny, high quality fruit even in plant's upper region.</i>
	07056 <b>Tema</b>	55	5"	DG	Brown	FM	BV <sup>1</sup>	<i>A very high yielding, fiberless variety for fresh market.</i>
	07130 <b>Valentino</b>	56	5 ½"	DG	White	S	BV, R	<i>A shipper variety that has performed very well in trials. It is similar to Bronco in maturity with darker colored pods.</i>

- A
- B
- C
- E
- G
- H
- K
- L
- M
- O
- P
- R
- S
- T
- W



JADE ★



DAWSON GOLD **NEW**



SUNBURST



SV1003GF ★



BESWEET 292

BEANS		BUSH GREEN Heritage Varieties - Home Garden					
		Days	Pod Length	Pod Color	Seed Color	Disease	Features
07007	<b>Blue Lake 274</b>	52	6"	DG	White	BV <sup>1</sup>	Popular garden variety.
07012	<b>Contender</b>	55	6 - 7"	MG	Mottled	BV <sup>1</sup> , PM	Disease resistant variety for market or garden.
★ 07135	<b>Jade</b>	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	<b>Provider</b>	52	6"	MG	Brown	BV <sup>1</sup> , N <sup>15</sup> , PM	An early home garden variety.
07048	<b>Royal Burgundy</b>	55	5 - 6"	P	Buff		Better bush type than Royalty with longer, straighter, smoother pods. <b>Limited Supply</b>
07026	<b>Strike</b>	55	5"	MG	White	BV <sup>1</sup>	A high yielding fresh market variety.
07028	<b>Tenderette</b>	60	5 - 6"	DG	White	BV <sup>1</sup> , N <sup>15</sup>	Excellent quality with slow seed development.
07021	<b>Tendergreen Improved</b>	53	5 - 6"	DG	Mottled	BV <sup>1</sup>	A more productive Tendergreen type.
07022	<b>Topcrop</b>	53	5 - 6"	MG	Brown		Canning or freezing type.

BEANS BUSH GREEN Fresh Market on Page 7		M=1,000 seeds				
Price per 1,000 seeds (M)		2M	10M	20M	80M	800M*
07147	<b>BA0999</b> Cruiser	4.40	4.15	3.95	3.70	
07043	<b>Bronco</b> Cruiser	4.80	3.80	3.55	3.35	3.10
07120	<b>Dark Horse</b> Cruiser	5.10	4.10	3.85	3.65	3.40
07033	<b>Desperado</b> Cruiser	5.20	4.20	3.95	3.75	3.50
07155	<b>Jade II</b> Cruiser	4.00	3.75	3.55	3.30	
07005	<b>Momentum</b> Cruiser	5.35	4.35	4.10	3.90	3.65
07024	<b>Outlaw</b> Cruiser	5.20	4.20	3.95	3.75	3.50
07148	<b>Sybaris</b> Cruiser	5.25	4.25	4.00	3.80	3.55
07056	<b>Tema</b> Cruiser	5.30	4.30	4.05	3.85	3.60
07130	<b>Valentino</b> Cruiser	3.95	3.70	3.50	3.25	

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

BEANS BUSH GREEN FLAT		Priced per pound in these package sizes			
		1#	5#	25#	50#
07057	<b>Greencrop</b>	6.15	5.15	4.85	4.65
07017U	<b>Roma II</b> Untreated	5.90	4.90	4.60	4.40

BEANS YELLOW WAX		M=1,000 seeds				
Priced per pound in these package sizes		1#	5#	25#	50#	500#
08004U	<b>Cherokee</b> Untreated	5.95	4.95	4.70	4.55	4.40
Price per 1,000 seeds (M)		2M	10M	20M	80M	800M*
07157	<b>Dawson Gold</b> Cruiser	8.45	7.45	7.20	7.00	6.75
08019	<b>Sunburst</b> Cruiser	5.35	4.35	4.10	3.90	3.65
08005	<b>SV1003GF</b> Cruiser	5.40	4.40	4.15	3.95	3.70

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

BEANS BUSH GREEN Heritage		Priced per pound in these package sizes				
		1#	5#	25#	50#*	500#*
07007U	<b>Blue Lake 274</b> Untreated	6.05	5.05	4.80	4.65	4.50
07012U	<b>Contender</b> Untreated	6.00	5.00	4.75	4.60	4.45
07135	<b>Jade</b>	8.30	7.30	7.05	6.90	6.75
07016U	<b>Provider</b> Untreated	6.00	5.00	4.75	4.60	4.45
07048U	<b>Royal Burgundy</b> Untreated	6.15	5.15			
07026U	<b>Strike</b> Untreated	6.00	5.00	4.75	4.60	4.45
07028U	<b>Tenderette</b> Untreated	6.55	5.55	5.30	5.15	5.00
07021U	<b>Tendergreen Improved</b> Untreated	6.00	5.00	4.75	4.60	4.45
07022U	<b>Top Crop</b> Untreated	6.00	5.00	4.75	4.60	4.45
Price per 1,000 seeds (M)		2M	10M	20M	80M	800M*
07015	<b>Cabot</b> Cruiser	5.95	4.95	4.70	4.50	

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


BEANS DRY SHELLING		M=1,000 seeds			
Price per 1,000 seeds (M)		2M	10M	20M	40M
09032U	<b>Cabernet</b> Red Kidney Untreated	5.35	4.35	4.10	3.90
09031U	<b>Etna</b> Cranberry Untreated	10.05	9.05	8.80	8.60
09033U	<b>SV1893GH</b> Navy Untreated	4.60	3.60	3.35	3.15
09034U	<b>SV6139GR</b> Pinto Untreated	4.85	3.85	3.60	3.40

BEANS EDIBLE SOY		Priced per pound in these package sizes			
		1#	5#	25#	50#
09025U	<b>BeSweet 292</b> Untreated	10.50	9.50	9.25	9.00

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

BEANS		YELLOW WAX						
Days	Pod Length	Pod Shape	Pod Color	Seed Color	Disease	Features		
<i>Fresh Market</i>								
 07157	<b>Dawson Gold</b> 	55	5"	Round	Y	White	BV, R, A	This is a larger sieve wax bean that has yellow pods and a robust yield.
08019	<b>Sunburst</b> 	50	6"	Round	BY	White	BV, HB	A Seminis variety for local market or shipping. Long straight pods that are an attractive bright yellow. Concentrated set.
 08005	<b>SV1003GF</b> 	56	5 ¼"	Round	Y	White	BBS, BV	Has better color and a slightly longer pod than Gold Dust with a more upright plant. Consistent yielder.
<i>Heritage Varieties</i>								
08004	<b>Cherokee</b>	51	6"	Round	DY	Buff		A proven home garden variety.

BEANS		DRY SHELLING					
Days	Seed Color	Bean Type	Plant Type	Disease	Features		
09032	<b>Cabernet</b>	91	Dark red	Kidney	Determinate Bush	BV	Mid season Kidney Bean. High quality and yield, excellent dark red color.
09031	<b>Etna</b>	88	Red flecks on off white	Cranberry	Determinate Bush	BV	An early season Cranberry Bean. Large seeded and high yield potential.
09033	<b>SV1893GH</b>	102	White	Navy	Determinate Bush	BV	Main season, high yield, a high quality Navy bean.
09034	<b>SV6139GR</b>	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 (edamame) from Rupp Genetics are in a class of their own for table use. They produce very large beans that are high in protein and sweet if picked and preserved in the proper stage. Used primarily as a shelled green bean with eating quality superior to limas and higher protein than either peas or limas. The best flavored of all food grade soybeans.						
09025	<b>BeSweet 292</b> 	85	24"	1200/lb.	Yellow	The top commercial check variety for vegetable soybeans produced under license from AVRDC in Taiwan.

## GROWER PREFERRED ALL-STARS BEANS

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

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

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


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

### BEANS YELLOW

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

### BEANS GREEN RUNNER

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



**Dave Silveus**  
Vegetable Consultant



BORSALINO

**POST HARVEST FINANCING AVAILABLE**  
 We offer a variety of financing options including 0% interest with no payments due until December 2024.  
**The best rates are available before 12/31/2023.**  
 See page 155 for all of the details on how to take advantage of this payment option.

0%



**JOHN DEERE FINANCIAL**

BEANS		FRENCH FILET						
▲		Days	Pod Length	Diameter	Pod Color	Seed Color	Disease	Features
08018	<b>Borsalino</b> <small>Baby Wax</small>	60	4"	1/4"	Y	White	A, BV	A Vilmorin high quality baby wax bean with a deep gold color and a concentrated set for both hand or mechanical harvest. Sieve size 2 & 3.
07089	<b>Maxibel</b>	60	7"	1/4"	DG	Black		A selection from Vilmorin with improved pod color, stress tolerance and disease tolerance. It has straight pods and is slow to seed. Best when hand picked. Sieve size 2-3.

BEANS		GREEN RUNNER						
▲		Days	Pod Length	Pod Shape	Pod Color	Seed Color	Disease	Features
07020	<b>State Half Runner</b>	60	4"	Oval	LG	White		<b>CROP FAILURE</b> Longer and larger podded than White Half Runner.
★ 07118	<b>Volunteer Half Runner</b>	60	6"	Oval	LG	White	BV, R	A strain of Half Runner developed by the USDA breeder, Dr. Mullins, at the University of Tennessee. The commercial favorite.
07023	<b>White Half Runner</b>	60	4 1/2"	Oval	LG	White		Similar to Mountaineer Half Runner.

BEANS		HORTICULTURAL <small>Heritage Varieties</small>						
▲		Days	Pod Length	Pod Shape	Pod Color	Seed Color	Use	Features
07039	<b>Dwarf Horticultural Taylor</b>	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	<b>Borsalino</b>	6.10	5.35	5.10	4.85
07089	<b>Maxibel</b>	9.35	8.60	8.35	8.10

BEANS HORTICULTURAL		Priced per pound in these package sizes			
		1#	5#	25#	50#
07039U	<b>Dwarf Horticultural Taylor</b> <small>Untreated</small>	6.55	5.55	5.25	5.05
07031U	<b>French Horticultural</b> <small>Untreated</small>	7.50	6.50	6.20	

BEANS GREEN RUNNER		Priced per pound in these package sizes			
		1#	5#	25#	50#
07020U	<b>State Half Runner</b> <small>Untreated</small>	<b>Crop Failure</b>			
07118	<b>Volunteer Half Runner</b>	6.25	5.25	4.95	4.75
07023U	<b>White Half Runner</b> <small>Untreated</small>	6.25	5.25	4.95	4.75



ORIENT WONDER



SEYCHELLES



**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%

BEANS		POLE Heritage Varieties					
		Days	Pod Length	Pod Shape	Pod Color	Seed Color	Features
10002	<b>Blue Lake Pole</b>	63	5 - 6"	Round	DG	White	<i>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.</i>
10008	<b>Kentucky Blue</b> <sup>PVP</sup>	58	7 - 10"	Round	MG	White	<i>A Kentucky Wonder - Blue Lake combination with flavor similar to Kentucky Wonder but sweeter. Earlier than Kentucky Wonder. An AAS winner.</i>
10001	<b>Kentucky Wonder</b>	65	7 - 8"	Flat Oval	MG	Buff	<i>Most popular pole variety. Good for cut beans or dry shell use.</i>
10004	<b>Orient Wonder</b> <sup>Yard Long</sup>	65	15 - 18"	Long Narrow	DG	White	<i>Popular for specialty and ethnic markets. Superior to standard strains due to its ability to set in cooler climates.</i>
10005	<b>Seychelles</b>	55	6"	Round	DG	White	<i>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.</i>

BEANS		BUSH LIMA Heritage Varieties					
		Days	Height	Seeds per Pod	Seed Color / Shape	Features	
11006	<b>Dixie Speckled Butterpea</b>	75	16 - 24"	3 - 4	Red Speckled / baby lima	<i>Similar to White Dixie, a southern favorite.</i>	
11002	<b>Fordhook 242</b>	75	16 - 20"	3 - 4	Cream / thick and plump	<i>Home garden and market. Freezer type.</i>	
11003	<b>Henderson Bush</b>	65	16"	3 - 4	White / thick and plump	<i>Used primarily for canning and freezing. Home garden.</i>	
11004	<b>Thorogreen Bush</b>	65	15 - 16"	3 - 4	Light Green / small and flat	<i>Home garden and processing.</i>	

BEANS POLE					
Priced per pound in these package sizes					
	1#	5#	25#	50#	
10002U <b>Blue Lake Pole</b> <sup>Untreated</sup>	8.50	7.50	7.20	7.00	
10001U <b>Kentucky Wonder</b> <sup>Untreated</sup>	7.85	6.85	6.55	6.35	
10004U <b>Orient Wonder</b> <sup>Yard Long Untreated</sup>	44.50	43.50	43.20	43.00	
10005U <b>Seychelles</b> <sup>Untreated</sup>	9.95	8.95	8.65	8.45	
Price per 1,000 seeds (M)					
10008 <b>Kentucky Blue</b>	2M	10M	20M	80M	
	7.25	6.25	6.00	5.80	

BEANS BUSH LIMA					
Priced per pound in these package sizes					
	1#	5#	25#	50#	
11006U <b>Dixie Speckled Butterpea</b> <sup>Untreated</sup>	7.00	6.00	5.70	5.50	
11002U <b>Fordhook 242</b> <sup>Untreated</sup>	6.90	5.90	5.60	5.40	
11003U <b>Henderson Bush</b> <sup>Untreated</sup>	6.90	5.90	5.60	5.40	
11004U <b>Thorogreen Bush</b> <sup>Untreated</sup>	6.90	5.90	5.60	5.40	



RED ACE pg. 13

# BEETS

## PLANTING

Plant seed 1" apart and thin to 2" apart. Row spacing ranges from 15" - 24". Seed depth should be ¼" - ½" deep. Poor stands are often the result of planting too deeply or the soil's crusting after a heavy rain. The seedlings may emerge over a relatively long period of time, making a stand of different sizes and ages of seedlings.

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

## MANAGEMENT

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

## HARVEST

Beets can be harvested whenever they grow to the desired size. About 60 days are required for beets to reach 1½" in diameter, the size often used for cooking, pickling or canning.

## STORAGE

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



CAMARO



CHIOGGIA GUARDSMARK



GOLDEN BOY NEW



RED ACE



SCHRUTE NEW



TOUCHSTONE GOLD

BEETS		Days	Sugar	Features
<b>Fresh Market</b>				
14003	<b>Camaro</b> <sup>F1</sup>	50 - 55	15%	Good root quality, uniform size and shape. High marketable yield. Smooth skin, good internal and external color.
14105	<b>Chioggia Guardsmark</b>	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.
<span style="background-color: red; color: white; padding: 2px;">NEW</span> 14108	<b>Golden Boy</b>	89-90	12-15%	Golden Boy features extremely uniform roots and a bright yellow color. Golden Boy produces high yields and maintains a consistent quality while offering disease and drought resistance.
14107	<b>Lutz Green Leaf</b> <sup>Pink Stem</sup>	63	7 - 9%	A top shaped beet with glossy, bright green leaves used for fine greens. Superior storage beet.
14011	<b>Merlin</b> <sup>F1</sup>	63	12 - 15%	A beet that replaces Pacemaker III with very similar qualities but more producible seed.
14002	<b>Red Ace</b> <sup>F1</sup>	53	12 - 15%	Early, sweet, red and resists zoning in hot weather. Excellent for garden, market or processing.
<span style="background-color: red; color: white; padding: 2px;">NEW</span> 14116	<b>Schrute</b> <sup>F1</sup>	60	12-15%	A fast-growing, globe shaped hybrid with moderately zoned flesh, extremely smooth skin, and strong tops. These attractive and flavorful roots are great for fresh market, bunching, or processing.
14106	<b>Touchstone Gold</b>	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.
<b>Heritage Varieties</b>				
14115	<b>Bull's Blood</b>	60	5 - 7%	An heirloom variety with deep red leaves, good flesh quality, and used primarily for its tops in baby greens mixes.
14104	<b>Cylindra</b>	60	5 - 7%	Unique, long cylindrical shaped beet, excellent for slicing. Up to 8" long and 1 3/4" in diameter.
14101	<b>Detroit Dark Red</b>	58	5 - 7%	A very popular, tender, dark red beet used by many home gardeners.
14102	<b>Early Wonder</b>	52	5 - 7%	A flattened, globe shaped, dark red beet. Sweet and tender.
14103	<b>Ruby Queen</b>	60	5 - 7%	An early, excellent quality beet for the gardener. Tender, fine grained and sweet.

BEETS	Price per 1,000 seeds (M)	M=1,000 seeds			
		5M	25M	250M	1,000M
14003 <b>Camaro</b>		1.46	1.37	1.31	1.27
14105 <b>Chioggia Guardsmark</b> <sup>F300</sup>		1.74	1.65	1.59	1.55
14108 <b>Golden Boy</b> <sup>F300</sup>		2.19	2.10	2.04	2.00
14011 <b>Merlin</b> <sup>F300</sup>		1.34	1.25	1.19	1.15
14002 <b>Red Ace</b> <sup>F300</sup>		1.34	1.25	1.19	1.15
14116 <b>Schrute</b> <sup>F300</sup>		1.44	1.35	1.29	1.25
14106 <b>Touchstone Gold</b> <sup>F300</sup>		2.89	2.80	2.74	2.70

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

BEETS	Priced per package	1 oz.		4 oz.	
		1#	5#	50#	
14115U <b>Bull's Blood</b> <sup>Untreated</sup>		3.35	11.50	30.60	28.60
14112U <b>Chioggia</b> <sup>Untreated</sup>		3.15	10.90	29.00	27.00
14104U <b>Cylindra</b> <sup>Untreated</sup>			4.45	11.75	11.50
14101U <b>Detroit Dark Red</b> <sup>Untreated</sup>			4.45	11.75	11.50
14102U <b>Early Wonder</b> <sup>Untreated</sup>			4.90	13.00	12.75
14107U <b>Lutz Green Leaf</b> <sup>Untreated</sup>			7.50	19.95	19.70
14103U <b>Ruby Queen</b> <sup>Untreated</sup>			4.25	11.25	11.00



EMERALD CROWN ★ pg. 15

# BROCCOLI

## PLANTING

For spring broccoli, plant in greenhouse in flats. Sow  $\frac{1}{4}$ " to  $\frac{1}{2}$ " deep. For fresh market broccoli, plant on 30" beds with trickle irrigation. On a 30" bed, plant two rows of broccoli. Plants should be 15" apart. When planting fall broccoli, count backward from the first fall frost in your area and add about 30 days from planting. This can be either started in a greenhouse or direct seeded into the field.

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

## MANAGEMENT

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

## HARVEST

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

## STORAGE

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

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

## DISEASE CODES

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





EASTERN CROWN



GREEN MAGIC ★



HANCOCK



IMPERIAL ★



MILLENNIUM ★



SORRENTO

BROCCOLI		Days from Transplant***	Sowing Season	Head Size	Bead Size	Disease Code	Features
<b>Fresh Market</b>							
15009	<b>Eastern Crown</b> F1	74	Spring Summer	Medium	Small		<i>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.</i>
★ 15051	<b>Emerald Crown</b> F1	78**	Spring	Medium	Medium Small	DM	<i>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.</i>
★ 15044	<b>Green Magic</b> F1	75	Spring	Medium	Medium Small	DM	<i>This summer type broccoli offers very good uniformity and holding ability. It is in the mid-early maturity class and has a wide adaptability. Has a semi-dome, tight head, with medium-small bead size and good plant habit.</i>
15001	<b>Hancock</b> F1	85	Spring Summer	Medium	Small		<i>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.</i>
★ 15049	<b>Imperial</b> F1	85*, **	Spring	Medium	Small	DM	<i>A Sakata variety that performs best during long day conditions. Good heat tolerance. Tight head with small, dark green beads.</i>
★ 15004	<b>Millennium</b> F1	88	Spring, Summer	Large	Extra Small		<i>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.</i>
15509	<b>Sorrento</b> Broccoli Raab	70	Spring, Fall	Large Florets			<i>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.</i>
<b>Heritage Varieties</b>							
15502	<b>Waltham 29</b>	95	Spring	Medium			<i>Good main heads with a heavy crop of side shoots.</i>

\* Day length sensitive, earlier maturity when day length is longer.

\*\* Requires warmer night time temperatures to mature, growth rate dramatically slows down under cold temperatures.

\*\*\* Add 15-20 days for direct seeding.

BROCCOLI	Price per 1,000 seeds (M)	M=1,000 seeds				
		1M	5M	25M	100M	500M*
15009 <b>Eastern Crown</b>	11.55	10.95	10.60	10.20	10.00	
15051 <b>Emerald Crown</b>	10.25	9.65	9.30	8.90	8.70	
15044 <b>Green Magic</b>	8.95	8.35	8.00	7.60	7.40	
15001 <b>Hancock</b>	9.10	8.50	8.15	7.75	7.55	
15049 <b>Imperial</b>	9.45	8.85	8.50	8.10	7.90	
15004 <b>Millennium</b>	10.70	10.10	9.75	9.35	9.15	
Priced per package		1 oz.	4 oz.			
Priced per pound in these package sizes					1#	
15509 <b>Sorrento</b> Broccoli Raab	12.50	19.95	60.00			
15502 <b>Waltham 29</b>	4.65	7.40	22.25			

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

## ALL-STARS ★ 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



CHURCHILL pg. 17

# 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.



CAPITOLA



CHURCHILL



RED BALL



**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%

BRUSSELS SPROUTS				
	Days	Sprout Size	Plant Size	Features
<i>Fresh Market</i>				
16006 <b>Capitola</b> <sup>F1</sup>	90	1 ½"	38"	<i>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.</i>
16007 <b>Churchill</b> <sup>F1</sup>	80	1 - 1 ¼"	30"	<i>A first early variety, maturing late August to October. Produces good yields of tight, evenly spaced buttons with superb flavor.</i>
16001 <b>Jade Cross E</b> <sup>F1</sup>	85	¾ - 1"	28"	<i>Produces high yields of solid deep green brussels sprouts. Compact plants are less subject to wind damage and can be sown later than other varieties. It matures well in early frost. Good disease package.</i>
16002 <b>Jade Cross Regular</b> <sup>F1</sup>	85	¾ - 1"	28"	<i>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.</i>
16502 <b>Red Ball</b>	100	1"	38"	<i>Specialty variety producing red sprouts which improve in color after cold weather. Best red variety available.</i>
<i>Heritage Varieties</i>				
16501 <b>Long Island Improved</b>	90	¾ - 1"	24"	<i>Popular home garden variety. Medium green sprouts.</i>

BRUSSELS SPROUTS		M=1,000 seeds			
<i>Priced per package</i>		1 oz.	4 oz.	1#	
16501 <b>Long Island Improved</b>		3.65	7.30	21.95	
<i>Price per 1,000 seeds (M)</i>		1M	5M	25M	100M
16006 <b>Capitola</b>	26.05	25.40	25.10	24.65	
16007 <b>Churchill</b>	14.90	14.25	13.95	13.50	
16001 <b>Jade Cross E</b>	7.75	7.10	6.80	6.35	
16002 <b>Jade Cross Regular</b>	10.40	9.75	9.45	9.00	
16502 <b>Red Ball</b>	5.90	5.25	4.95	4.50	

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GOLDEN CROSS IMP. **NEW** pg. 20

# 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



BLUE VANTAGE ★



XTREME VANTAGE



GRAND VANTAGE ★



STELLAR VANTAGE ★

CABBAGE		HYBRID					
		Days from Transplant*	Head Weight pounds	Head Type	Color	Disease Code	Features
★	17069 <b>Fast Vantage</b>	50	2 ½	Round	Medium Green		A very uniform hybrid that is slightly earlier than Headstart for the early cool season.
	17005 <b>Stonehead</b>	60	3 - 4	Round	Gray Green	TB	A popular, early hybrid for home garden or market. Solid, slow to burst heads.
	17021 <b>Charmant</b>	65	3 - 4	Round	Blue Green	TB, YR	Early, darker green, and slightly larger Stonehead type. Home garden, fresh market, and shipping.
	17097 <b>Platinum Dynasty</b>	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 <b>Blue Dynasty</b>	75	5	Round	Blue	BR, TB, YR	A very uniform, disease tolerant, good holding market cabbage from Seminis.
★	17022 <b>Blue Vantage</b>	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 <b>Cheers</b>	80	4 - 6	Round	Blue Green	BR, YR	A hybrid with uniform heads, larger wrapper leaves. Disease resistant. Compare to Blue Vantage.
	17011 <b>Xtreme Vantage</b>	80	5 - 6	Round	Blue Green	BR, TB, YR	Very good uniformity in field. Has a good disease package.
★	17116 <b>Grand Vantage</b>	85	5 - 6	Round	Blue Green	TB, YR <sup>1</sup>	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 <b>Stellar Vantage</b>	85	5	Round	Blue Green	BR, YR <sup>1</sup>	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.

## ALL-STARS ★ 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.

*Phil Ramsey*  
Vegetable Consultant



### CABBAGE Hybrid

M=1,000 seeds

	Price per 1,000 seeds (M)	1M	5M	25M	100M	500M*
17091 <b>Blue Dynasty</b>	7.30	6.70	6.10	5.50	5.40	
17022 <b>Blue Vantage</b>	6.40	5.80	5.20	4.60	4.50	
17021 <b>Charmant</b>	7.45	6.85	6.25	5.65	5.55	
17048 <b>Cheers</b>	7.55	6.95	6.35	5.75	5.65	
17085 <b>Emblem</b>	6.65	6.05	5.45	4.85	4.75	
17069 <b>Fast Vantage</b>	7.50	6.90	6.30	5.70	5.60	
17116 <b>Grand Vantage</b>	8.95	8.35	7.75	7.15	7.05	
17097 <b>Platinum Dynasty</b>	7.40	6.80	6.20	5.60	5.50	
17008 <b>Primo Vantage</b>	7.95	7.35	6.75	6.15	6.05	
17009 <b>Stellar Vantage</b>	7.00	6.40	5.80	5.20	5.10	
17005 <b>Stonehead</b>	6.85	6.25	5.65	5.05	4.95	
17011 <b>Xtreme Vantage</b>	6.35	5.75	5.15	4.55	4.45	

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



GOLDEN CROSS IMPROVED **NEW**



RED DYNASTY



SAVOY ACE IMPROVED



RUBY PERFECTION



TOY CHOY

CABBAGE		SPECIALTY Hybrid					
		Days from Transplant*	Head Weight pounds	Head Type	Color	Disease Code	Features
<b>NEW</b>	17098 <b>Golden Cross Improved</b>	40	2	Round	Green		A small-sized hybrid cabbage. Uniform globe heads are medium green and firm with a short core. Early bursting after full maturity. Recommended harvest spring to fall.
	17090 <b>Red Dynasty</b>	72	3 ½ - 5	Flat Round	Red	BR, TB	A Seminis red cabbage with the right size for fresh market plus intermediate black rot resistance.
	17004 <b>Savoy Ace Improved</b>	73	3 - 4	Flat Round	Dark Green		AAS winner. Superior quality savoy type with a medium large head.
	17070 <b>Red Jewel</b>	75	3 - 5	Round	Purple Red	TB	Sakata hybrid that is widely adaptable with very good holding ability. Excellent uniformity and yield potential.
	17003 <b>Ruby Perfection</b>	86	3 - 4	Round	Purple Red		Deepest red colored cabbage. Uniform 3 - 4 pound head for home garden or market.

\* Add 10-15 days for direct seeding.

CABBAGE		OP - Heritage Varieties					
		Days from Transplant*	Head Weight pounds	Head Type	Color	Disease Code	Features
	17503 <b>Early Jersey Wakefield</b>	62	2 - 3	Pointed	Dark Green		Excellent flavor makes it a popular variety for the home garden.
	17502 <b>Golden Acre</b>	63	3	Round	Green	YR	The most popular early home garden variety.
	17509 <b>Copenhagen Market</b>	75	3 - 4	Round	Medium Green		Uniform, good keeping variety suitable for home garden.
	17507 <b>Red Acre</b>	80	3	Round	Red		Popular home garden variety.
	<b>Early Flat Dutch Brunswick</b>	88	6 - 8	Flat Round	Dark Green		Popular home garden variety.
	17501 <b>Danish Ballhead</b>	100	5 - 7	Round	Blue Green		Excellent for all purposes, especially good for sauerkraut. Home garden.
	17508 <b>Late Flat Dutch</b>	105	Up to 30	Flat Round	Green		Good storage variety and one of the best for sauerkraut. Home garden.

\* Add 10-15 days for direct seeding.

CABBAGE		CHINESE					
		Days from Transplant*	Head Weight pounds	Head Type	Color	Disease Code	Features
<b>Fresh Market</b>							
	18010 <b>Blues</b> <sup>F1</sup>	57	4 - 5	Napa	Green	ALS, BS, DM	Extra slow bolting, high disease tolerance, superior performance in spring or early fall.
	18017 <b>Yuki</b> <sup>F1</sup>	67	4 - 5	Napa	Green	BS, CR, TB	Yuki is a medium maturing, China Pride type hybrid. Good uniformity and size.
	18012 <b>Monument</b> <sup>F1</sup>	80	4	Michihli	Green		Bright green, cylindrical shape with long shelf life.
<b>Heritage Varieties</b>							
	18001 <b>Michihli</b>	75	5 - 6	Michihli	Green		Popular, well known variety used in the home garden for many years.

\* Add 10-15 days for direct seeding.

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CABBAGE		CHINESE Pak-Choi			
		Days	Head Type	Color	Features
49013	<b>Toy Choy</b> <sup>F1</sup>	30 - 35	Celery	White	<i>A compact hybrid Cantonese Pak Choi with thick, broad, milky white petioles and glossy, dark green leaves. Perfect for growers servicing Asian markets.</i>
49007	<b>Mei Qing Choi</b> <sup>F1</sup>	35 - 40	Celery	Green	<i>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.</i>
49012	<b>Joi Choi</b> <sup>F1</sup>	35 - 40	Celery	White	<i>First hybrid white stem. Slower bolting and higher yielding than OP's. Popular with the Chinese market.</i>
18005	<b>Pak Choi</b>	55	Celery	White	<i>The variety of white celery mustard popular in both China and the U.S. Sow in spring, summer and fall.</i>

CABBAGE SPECIALTY Hybrid		M=1,000 seeds				
	Price per 1,000 seeds (M)	1M	5M	25M	100M	500M
17002	<b>Genesee</b> <sup>Vestri</sup>	15.30				
17098	<b>Golden Cross Improved</b>	8.60	8.00	7.40	6.80	6.70
17082	<b>Huron</b>	14.05	13.45	12.85	12.25	12.15
17090	<b>Red Dynasty</b>	10.80	10.20	9.60	9.00	8.90
17070	<b>Red Jewel</b>	10.45	9.85	9.25	8.65	8.55
17003	<b>Ruby Perfection</b>	10.50	9.90	9.30	8.70	8.60
17004	<b>Savoy Ace Improved</b>	11.80	11.20	10.60	10.00	9.90
17041	<b>Savoy King</b>	11.10	10.50	9.90	9.30	9.20

CABBAGE CHINESE		M=1,000 seeds			
	Price per package	1 oz.	4 oz.	1#	
18001	<b>Michihli</b>	3.40	8.00	15.95	
	Price per 1,000 seeds (M)	1M	5M	25M	100M
18006	<b>Apollo</b>	4.20	3.60	3.30	2.70
18010	<b>Blues</b>	4.20	3.60	3.30	2.70
18012	<b>Monument</b>	4.10	3.50	3.20	2.60
18017	<b>Yuki</b>	5.55	4.95	4.65	4.05

CABBAGE OP		M=1,000 seeds			
	Price per package	1 oz.	4 oz.	1#	
17509	<b>Copenhagen Market</b>	6.15	9.30	18.50	
17501U	<b>Danish Ballhead</b> <sup>Untreated</sup>	7.45	11.35	22.50	
17512	<b>Early Flat Dutch Brunswick</b>	6.15	9.30	18.50	
17503	<b>Early Jersey Wakefield</b>	6.15	9.30	18.50	
17502	<b>Golden Acre</b>	6.15	9.30	18.50	
17508	<b>Late Flat Dutch</b>	6.15	9.35	18.55	
17507	<b>Red Acre</b>	7.45	11.35	22.50	

CABBAGE CHINESE Pak-Choi		M=1,000 seeds			
	Price per package	1 oz.	4 oz.	1#	
18005	<b>Pak Choi</b>	4.75	11.15	22.25	
	Price per 1,000 seeds (M)	1M	5M	25M	100M
49012	<b>Joi Choi</b>	4.90	4.30	4.00	3.40
49007	<b>Mei Qing Choi</b>	4.90	4.30	4.00	3.40
49013	<b>Toy Choy</b>	3.95	3.35	3.05	2.45

## ONLINE VEGETABLE PRODUCTION RESOURCES

### [www.ruppseeds.com/MVPG](http://www.ruppseeds.com/MVPG)

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



### [www.ruppseeds.com/MAVR](http://www.ruppseeds.com/MAVR)

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



### [www.ruppseeds.com/PSUsoil](http://www.ruppseeds.com/PSUsoil)

Penn State University offers soil test recommendations for commercial vegetables.



### [www.ruppseeds.com/uoiVeg](http://www.ruppseeds.com/uoiVeg)

University of Illinois Extension Vegetable Gardening Basics.



### [www.ruppseeds.com/OSUVeg](http://www.ruppseeds.com/OSUVeg)

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



### [www.ruppseeds.com/MSUipm](http://www.ruppseeds.com/MSUipm)

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



### [www.ruppseeds.com/NCShort](http://www.ruppseeds.com/NCShort)

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



### [www.ruppseeds.com/PSUext](http://www.ruppseeds.com/PSUext)

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





# CARROTS

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

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

- Nantes are easily and widely adapted; straight cylindrical roots ranging 5" - 7" long. They tend to have a sweet flavor and crisp texture, but have a limited storage potential. Nantes are grown in loose sandy soils or in raised beds.
- Chantenay have conical roots with broad shoulders and rounded tips. They have a rich, sweet flavor and also possess a good storage potential. They are an excellent type to grow from summer to fall and are adapted to various soil types. They usually size up well in clay soils with high organic matter content.

- Baby carrots have a root less than 5" long with a crisp texture and are frequently quite sweet when mature. They also are grown in any well drained soil and can be used to separate different types of salad greens. They tend to have limited storage potential.
- Imperator are long with a tapered root shape, stocky shoulders and strong tops. They tend to have a fibrous texture and store well. This type of carrot sizes up best in deep, sandy loam.
- Danvers have a thick rooted cylindrical shape with a yellowish core. This type is mainly used for processing, juicing, and storage.

## PLANTING

Carrots can be planted in soils as cool as 40°F with the ideal temperature ranging from 50 to 75°F. They take anywhere from 7 - 21 days to emerge from the soil depending on soil temperatures. Spring carrots are planted 2 - 3 weeks before the last frost. For fall harvest, plant carrots 10 - 12 weeks before the first frost. Seed carrots ¼" - ½" deep and 15" between rows. Using seed tapes or pelleted seed will help prevent over seeding.

See "Germination Chart" on page 149 for additional information on germination rate and

days to germination at various soil temperatures.

## MANAGEMENT

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

## HARVEST

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

## STORAGE

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





BOLERO



ENTERPRISE



GOLD NUGGET



MUSICO



VIPER



RAINBOW BLEND

CARROTS		Hybrid				
▲		Maturity	Size	Type	Interior	Features
19032	<b>Bolero</b>	Early	8"	Nantes	Orange	<i>Bolero is a proven variety year in and year out as a versatile nantes suited for bunching, slicing and baby nantes markets.</i>
19026	<b>Enterprise</b>	Early Main	12 - 14"	Imperator	Dark Orange	<i>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.</i>
19014	<b>Gold Nugget</b>	Medium Early	7.5 - 8"	Nantes	Yellow	<i>Sweet flavor. Very uniform with high production. Medium vigor. Erected with a strong top and good aptitude for harvesting by top lifting.</i>
19006	<b>Musico</b>	Early	7 - 8"	Nantes	Dark Orange	<i>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.</i>
19007	<b>Olympus</b>	Main	7 - 9"	Imperator	Dark Orange	<i>Outstanding for bunching. Great color combined with a smooth finish. Very crisp texture and excellent flavor. Classy hybrid with high yield potential.</i>
19009	<b>Viper</b>	Main	12 - 14"	Imperator / Cut & Peel	Bright Orange	<i>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.</i>

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

CARROTS Hybrid		M=1,000 seeds			
Price per 1,000 seeds (M)		10M	100M	1,000M	5,000M
19032	<b>Bolero</b>	1.55	1.20	1.15	1.12
19026	<b>Enterprise</b>	1.09	0.74	0.69	0.66
19014	<b>Gold Nugget</b>	1.58	1.23	1.18	1.15
19006P	<b>Musico</b> <small>Pelleted</small>	1.68	1.33	1.28	1.25
19007	<b>Olympus</b>	1.03	0.68	0.63	0.60
19009	<b>Viper</b>	1.08	0.73	0.68	0.65

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



TWISTER ★ pg. 25

# CAULIFLOWER

## PLANTING

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

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

## MANAGEMENT

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

## HARVEST

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



MINUTEMAN ★



DEPURPLE



SYNERGY ★



FLAME STAR



SHAKARIS ★



CHEDDAR

CAULIFLOWER		Days from Transplant	Head Type	Plant Size	Self Wrapping	Sowing Season	Features
★	20015 <b>Minuteman</b> 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 <b>Snow Crown</b> F1	63	Semi Dome	Medium	Poor	Spring Summer	For spring or fall crops in the Midwest. Good uniformity, consistent performer.
	20013 <b>DePurple</b> 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 <b>Freedom</b> F1	70	Domed	Large	Excellent	Spring Summer	A mid season hybrid from Seminis with more uniformity for harvest.
★	20009 <b>Synergy</b> 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 <b>Twister</b> F1	75 - 80	Domed	Medium	Excellent	Spring, Summer	Twister is a tight, heavy-headed, white cauliflower with good internal wrap. It is mid-maturing with very uniform harvest. Twister seems to prefer heavier ground.
	20014 <b>Flame Star</b> F1	80	Semi Dome	Medium, Erect	Good	Spring, Summer	Beautiful semi-orange variety targeted to the specialty color market. Produces medium-size plant with high yields of smooth, dense, well-shaped heads. Versatile for fresh market or processing markets.
★	20006 <b>Shakarish</b> 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 <b>Snowball Y Improved</b>	82	Domed	Large	Poor	Spring Fall	Widely adapted, for bedding plants and home garden use.
	20021 <b>Cheddar</b> 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 <b>Graffiti</b> F1	85 - 90	Domed	Medium, Erect	Fair	Spring Summer	A unique deep purple hybrid from Syngenta which needs sunlight to obtain full color. Works well raw or steamed - add a small amount of lemon juice when cooking to retain the color.

CAULIFLOWER		M=1,000 seeds				
Priced per package		1 oz.	4 oz.	1#		
20501U	<b>Snowball Y Improved</b> Untreated	6.60	17.50	50.00		
Priced per package		250 Seeds				
Price per 1,000 seeds (M)		1M	5M	25M	100M	500M*
20021	<b>Cheddar</b>	25.55	78.55	77.55	76.55	75.55
20013	<b>DePurple</b>	29.45	90.55	89.55	88.55	87.55
20014	<b>Flame Star</b>	29.45	90.55	89.55	88.55	87.55
20020	<b>Freedom</b>	12.15	37.30	36.30	35.30	34.30
20025	<b>Graffiti</b>	29.45	90.55	89.55	88.55	87.55
20015	<b>Minuteman</b>	18.00	17.35	16.90	16.45	16.35
20006	<b>Shakarish</b>	19.55	18.90	18.45	18.00	17.90
20001	<b>Snow Crown</b>	14.55	13.90	13.45	13.00	12.90
20009	<b>Synergy</b>	19.75	19.10	18.65	18.20	18.10
20003	<b>Twister</b>	17.25	16.60	16.15	15.70	15.60

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

## ALL-STARS ★ CAULIFLOWER

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

**Synergy** handles the heat very well for late summer harvest.

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

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

Jeff Hess  
Vegetable Consultant





HUDSON



VICTORIA



FLASH



GEORGIA OR SOUTHERN



TOP BUNCH 2.0



VATES

CELERY						
		Maturity	Color	Plant Height	Stalk Length	Features
21003	<b>Hudson</b> 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	<b>Tall Utah Celery</b> 52-70R Improved	Medium	Medium Green	25"	14"	An improved 52-70, more refined, excellent yield and resists bolting under adverse conditions.
21001	<b>Victoria</b> F1	Early / main season	Medium Green	25"	14"	Tall with fleshy petioles. Quick growing with good standing ability and is slow to bolt in early plantings. Performs well under adverse spring conditions.

COLLARDS		
	Days	Features
22503	<b>Flash</b> F1	A vigorous, fancy, uniform, very slow bolting hybrid that offers growers an earlier Vates type.
22002	<b>Georgia or Southern</b>	A large, blue-green leaf variety very popular in the home garden.
22501	<b>Top Bunch 2.0</b> F1	Early maturing variety that resembles Top Bunch with wavy, lightly savoyed leaves that regrow quickly after harvest.
22001	<b>Vates</b>	<b>CROP FAILURE</b> 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	<b>Tall Utah Celery</b> Untreated	6.35	18.75	60.00
	Price per 1,000 seeds (M)	1M	10M	25M
21003P	<b>Hudson</b> Pelleted	7.20	6.75	6.40
21001P	<b>Victoria</b> Pelleted	7.20	6.75	6.40

COLLARDS		Priced per pound in these package sizes			
		1 oz.	4 oz.	1#	5#
22503	<b>Flash</b>	40.30	115.10	341.00	340.00
22002U	<b>Georgia or Southern</b> Untreated		5.70	18.70	18.45
22501	<b>Top Bunch 2.0</b>	41.05	117.15	347.00	346.00
22001	<b>Vates</b>				Crop Failure

## HIGH TUNNEL & PROTECTED CULTURE INDEX

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## 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](http://www.ruppseeds.com/ISPTech)



### **Pruning and Trellising**

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

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

### **Pollination**

A number of vegetable crops require pollinators such as bees to be present in order for pollination to take place and fruit to set. These crops include melons, some cucumbers and squash. If wild bees are present, they may enter the high

tunnel naturally. Planting cover crops such as hairy vetch, dill and alyssum around a high tunnel will help attract pollinators. If bees are not naturally present, many growers either hand-pollinate or purchase pollinators for release in the high tunnel. Contact Koppert Biological at 810-632-8750 or [www.ruppseeds.com/KoppertUS](http://www.ruppseeds.com/KoppertUS) if you need to purchase pollinators.



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

### **Air Circulation**

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

### **Pest Management and Scouting**

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

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

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





# CORN

## PLANTING

Plant seeds 8 - 12 inches apart on 30 inch rows to achieve optimum yield. Seed depth should be  $\frac{3}{4}$ " - 1 $\frac{1}{2}$ " depending on soil conditions, and genetic type. Plant when soil temperature is 60° F plus. Planting in blocks will also help increase uniformity in pollination.

See "Germination Chart" on page 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](http://www.ruppseeds.com/MVPG)

## ISOLATION

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

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

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

## RELATIVE MATURITY

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

## HARVEST

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

## STORAGE

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

## DISEASE CODES

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

**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.

**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.

## SH2 / IMPROVED SUPER SWEETS CONTINUED

**Solstice** (BC SH2 page 40) - Solstice is an early 70 day maturity. Has strong emergence, good ear size, a strong husk covered tip and exceptional tip fill. A quick snap for ease in picking and a short shank for packaging.

**Xanadu** (BC SH2 page 40) An offshoot of the Nirvana series, retaining exceptional eating quality and consumer appeal while bringing in a stronger plant, higher ear placement and improved disease tolerance.

**Xtra Tender 274A** (BC SH2 page 40) has proven to be the best cold soil tolerant variety in the SH2 category. With excellent eating quality and flavor, it does well in roadside and local markets.

## SYNERGISTIC

**Allure** (BC SYN page 37) is an excellent replacement for Kristine for a mid-season corn. Allure has the full package: good early vigor, nice husk package and excellent flavor.

**Cappuccino** (BC SYN page 37) a 73 day variety with great cold soil tolerance for first and second harvest. Strong disease package to hold up against NCLB and rust as well as being a good rain gap planting in the mid to late season with later maturing varieties while still holding your markets eating quality.

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

**Mirage** (WH SYN page 43) is the white version of Essence, which makes this one of our highest eating quality white Synergistic sweet corns. Tall, strong, and healthy plant type with good flavor and field holding ability. Excellent, dark green husk package and good husk cover.

**Montauk** (BC SYN page 37) is a proven variety with high yields and excellent flavor. It's a farmer's market favorite for yield and customer satisfaction.

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

**Tempress** (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 emerge



*Jeff Werner*  
Vegetable Consultant

A

B

C

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G

H

K

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P

R

S

T

W



TEMPTATION II



ANTHEM XR II



OBSESSION II



PASSION II



SV9010SA ★



STARFIGHTER II



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 copy.



<https://www.ruppseeds.com/vegetables/sweet-corn-guide>

CORN		PERFORMANCE SERIES™										Can be sprayed with Roundup brand agricultural herbicide.
SE	Relative Maturity	Color	Ear Size length x diameter	Kernel Rows	Rust	Stewart's	NLB	Use	Eating Quality	Features		
02138	<b>Temptation II</b>	72	Bi-Color 7.5 - 8 x 1.9"	16 - 18	M	R	M	FM	**	Compare to Temptation. Has excellent cold soil tolerance for first or second early plantings.		
<b>SH2</b>												
03132	<b>Anthem XR II</b>	74	Bi-Color 8 x 1.8"	14 - 18	R			FM, S	****	Enjoy the eating quality and rust protection of Anthem XR along with added benefits of Roundup Ready and BT traits found in Performance Series sweetcorn.		
03134	<b>Tiger Shark II</b>	74	Bi-Color 7.5 x 1.9"	16 - 18	R		-	FM, S	****	Tiger Shark II is the newest midseason bi-color SH2 variety. Excellent eating quality, mid-early maturity, long ear with refined kernels.		
03125	<b>Starfighter II</b>	79	White 8 x 1.9"	16 - 18	-	M	-	FM, S	***	Starfighter II is the biotech version of SV1580SC and offers Northern Leaf Blight protection.		
03080	<b>Obsession II</b>	80	Bi-Color 8 - 8.5 x 1.8"	16 - 20	M	M	M	FM, S	***	Compare to Obsession. Straight SH2 type that eats very similar to many improved supersweets. High-end yields.		
03082	<b>Passion II</b>	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	<b>SV9010SA</b>	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	<b>SV9012SD</b>	83	Yellow 8 x 2"	18 - 20	R	S	S	FM, S	**	Compare to 1336. An improved Passion with better tip cover.		
<b>Synergistic</b>												
★ 04026	<b>SV9014SB</b>	78	Bi-Color 7.8 x 1.9"	18 - 20	R	M	M	FM	****	Maintains the same great taste and eating quality of other high quality synergistic varieties.		

Performance Series™ sweet corn varieties are the only fresh market sweet corn products featuring the unique weed control benefits of Roundup WeatherMAX® and Roundup PowerMAX® agricultural herbicides. Be sure to read the label and confirm that the chemical you are spraying is 100% glyphosate with no other active ingredients.







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

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

Key Management Practices to Maximize Quality and Yield:

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

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

#### 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.

If you are not licensed you may visit [www.ruppseeds.com/Agcelerate](http://www.ruppseeds.com/Agcelerate) or call 1-866-784-7630 to register for an application, or we can mail you a 2024 Bayer Technology/Stewardship Agreement to fill out prior to us shipping your seed. Allow 3 - 4 weeks for mailed application to be processed.

CORN PERFORMANCE SERIES™		M=1,000 seeds	
	Price per 1,000 seeds (M)	25M	100M
<b>SE</b>			
02138 <b>Temptation II</b> Cruiser		16.69	16.69
<b>SH2</b>			
03132 <b>Anthem XR II</b> Cruiser		18.77	18.77
03080 <b>Obsession II</b> Cruiser		18.86	18.86
03082 <b>Passion II</b> Cruiser		18.49	18.49
03125 <b>Starfighter II</b> Cruiser		18.31	18.31
03084 <b>SV9010SA</b> Cruiser		18.96	18.96
03086 <b>SV9012SD</b> Cruiser		18.23	18.23
03134 <b>Tiger Shark II</b> Cruiser		18.68	18.68
<b>Synergistic</b>			
04026 <b>SV9014SB</b> Cruiser		16.93	16.93



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



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

INSECT RESISTANCE // HERBICIDE TOLERANCE				
	Seminis Performance Series™	Syngenta Attribute® I	Syngenta Attribute® Plus	Syngenta Attribute® II
<b>Key Sweet Corn Pest</b>				
<b>European Corn Borer</b>	E	E	E	E
<b>Corn Earworm</b>	VG*	F-G*	E*	E*
<b>Fall Armyworm</b>	E	G	E	E
<b>Black Cutworm</b>			VG	VG
<b>Additional Above-Ground Pests</b>				
<b>Southwestern Corn Borer</b>	x		x	x
<b>Sugarcane Corn Borer</b>	x		x	x
<b>Common Stalk Corn Borer</b>	x		x	x
<b>Southern Cornstalk Corn Borer</b>	x		x	x
<b>Beet Armyworm</b>			x	x
<b>Dingy Cutworm</b>			x	x
<b>Western Bean Cutworm</b>			x	x
<b>Additional Below-Ground Pests</b>				
<b>Western Corn Rootworm</b>	x			
<b>Northern Corn Rootworm</b>	x			
<b>Mexican Rootworm</b>	x			
<b>Protein</b>	Cry1A.105, Cry2Ab	Cry1Ab	Vip3A, Cry1Ab	Vip3A, Cry1Ab
<b>Herbicide Tolerance</b>	Glyphosate	Glufosinate	Glufosinate	Glufosinate

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

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



WH 0809



BC 0528



BC 0805



CROWN



PATRIARCH



BSS 0761

CORN		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	LIBERTY LINK			
<i>Synergistic</i>													
04018	WH 0809		80	White	8 1/2 x 1.9"	16	R	M	S	FM	***	A white Triplesweet from Syngenta with good eating quality and disease protection. Avalon BT.	
04207	BC 0528		81	Bi-color	8 1/4 x 1.9"	16 - 18	-	-	-	FM, HG	****	Bt version of Primus.	
04019	BC 0805		82	Bi-color	8 x 1.9"	16 - 18	R	S	S	FM	***	A rust resistant, Bt version of Providence.	

Attribute® varieties are resistant to Liberty herbicides. They may be sprayed with conventional corn herbicides as well as Liberty (glufosinate) herbicides. Be sure to read the label and confirm that the chemical you are spraying is 100% glufosinate with no other active ingredients.

CORN		ATTRIBUTE® PLUS Insect Protection										Can be sprayed with glufosinate herbicide.	
SH2													
03230	Crown		78	Yellow	8 x 2"	16	R	-	-	FM, S	****	An Attribute Plus that is a strong uniform plant with uniform ears.	
03108	Patriarch		79	Bi-color	8 x 2"	16	R	-	-	FM, S	****	Augmented supersweet variety with excellent adaptability. Possesses girthy ear with great tip fill. Robust Attribute Plus package.	
03101	BSS 0761		80	Bi-color	8 x 1.8"	16 - 18	-	-	-	FM, S	****	Offers exceptional eating quality and is ideal for the high end shipper and local markets. Has built-in insect protection and tolerance to Liberty herbicide through the Attribute trait stack.	
<i>Synergistic</i>													
★ 04042	Milky Way		82	White	8 1/4 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.	

Attribute® varieties are resistant to Liberty herbicides. They may be sprayed with conventional corn herbicides as well as Liberty (glufosinate) herbicides. Be sure to read the label and confirm that the chemical you are spraying is 100% glufosinate with no other active ingredients.

CORN		ATTRIBUTE® II Insect Protection										Can be sprayed with glufosinate and/or glyphosate herbicides.	
SH2													
	03225	Matriarch		78	Bi-color	7.75 x 2"	16 - 18	R	-	-	FM, S	****	A strong Attribute II plant that will do well at higher plant populations.
<i>Synergistic</i>													
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.	
04057	Revision		76 - 78	Bi-color	8 x 1.8"	14 - 16	-	-	-	FM, S	***	Attribute II, TripleSweet, and a Remedy replacement.	
04043	Remedy	&	82	Bi-color	8 1/2 x 1.9"	16	R	-	-	FM, HG	***	Remedy is a BC 0805 type with improved insect resistance. *An additional waiver needs to be signed for this variety.	

Attribute II® varieties may be sprayed with conventional corn herbicides or either Liberty (glufosinate) herbicides and glyphosate herbicides. Be sure to read the label and confirm that the chemical you are spraying is 100% glufosinate or 100% glyphosate with no other active ingredients.



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MILKY WAY ★



MATRIARCH 📌



QUICK TRIP



REMEDY



REVISION



### High Quality, Picture Perfect Ears

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

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

### Documents Required:



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 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](http://www.ruppseeds.com/Attribute)

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

The Attribute Grower Stewardship Agreement can be found on page 167. **You may also obtain your Attribute license by visiting [www.ruppseeds.com/Agcelerate](http://www.ruppseeds.com/Agcelerate).**

CORN ATTRIBUTE® Insect Protection		M=1,000 seeds	
	Price per 1,000 seeds (M)	25M	100M
<b>SH2</b>			
03137 <b>BSS 0977</b> Bi-Color Cruiser		14.45	14.45
<b>Synergistic</b>			
04207 <b>BC 0528</b> Bi-Color Cruiser		15.86	15.86
04019 <b>BC 0805</b> Bi-Color Cruiser		15.26	15.26
04018 <b>WH 0809</b> White Cruiser		15.10	15.10

CORN ATTRIBUTE II® Insect Protection		M=1,000 seeds	
	Price per 1,000 seeds (M)	25M	100M
<b>SH2</b>			
03225 <b>Matriarch</b> Bi-Color Cruiser		20.48	20.48
<b>Synergistic</b>			
04055 <b>Quick Trip</b> Bi-Color Cruiser		19.72	19.72
04043 <b>Remedy</b> Bi-Color Cruiser		19.69	19.69
04057 <b>Revision</b> Bi-Color Cruiser		20.08	20.08

CORN ATTRIBUTE PLUS® Insect Protection		M=1,000 seeds	
	Price per 1,000 seeds (M)	25M	100M
<b>SH2</b>			
03101 <b>BSS 0761</b> Bi-Color Cruiser		18.56	18.56
03230 <b>Crown</b> Yellow Cruiser		20.45	20.45
03108 <b>Patriarch</b> Bi-Color Cruiser		19.85	19.85
<b>Synergistic</b>			
04042 <b>Milky Way</b> White Cruiser		19.56	19.56



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](http://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.

# 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 2024 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 and from other types of corn including field corn, popcorn, and ornamental corn.

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

*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.

A

B

C

E

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H

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M

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P

R

S

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W

# SWEET CORN MATURITY INDEX

BI-COLOR	Relative Maturity	Genetic Type	Page #
Catalyst XR	66	Improved Super Sweets	40
Bolt XR	67	Improved Super Sweets	40
Fastlane	67	SE	36
Latte	68	Synergistic	37
QuickStart	68	Synergistic	37
Kickoff XR	69	Improved Super Sweets	40
Solstice	70	Improved Super Sweets	40
Tempress	70	Synergistic	37
Hero XR	71	Improved Super Sweets	40
Ignition	72	Improved Super Sweets	40
Profit	72	Synergistic	37
Quick Trip	72	Synergistic	32
Signature XR	72	Improved Super Sweets	40
Temptation	72	SE	36
Temptation II	72	SE	30
Anthem XR	73	Improved Super Sweets	40
Cappuccino	73	Synergistic	37
Anthem XR II	74	SH2	30
Superb MXR	74	Improved Super Sweets	40
Tiger Shark II	74	SH2	30
Xtra Tender 274A	74	Improved Super Sweets	40
Xanadu	74 - 75	Improved Super Sweets	40
Allure	75	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
Troubadour XR	76	Improved Super Sweets	41
American Dream	77	Improved Super Sweets	41
AP358	78	Improved Super Sweets	42
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 <small>EX08767143</small>	80	SH2	42
BSS 0761	80	SH2	32
Obsession II	80	SH2	30
Precious Gem	80	SE	36
Stamina MXR	80	Improved Super Sweets	42
BC 0528	81	Synergistic	32
Primus	81	Synergistic	37
SV9010SA	81	SH2	30
BC 0805	82	Synergistic	32
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

WHITE	Relative Maturity	Genetic Type	Page #
Leadoff MXR	69	Improved Super Sweets	44
Illusion	72	Synergistic	43
Xtra Tender 372A	72	SH2	44
Freedom MXR	73	Improved Super Sweets	44
Eden RMN	74	Improved Super Sweets	44
7401 Imp	75	Improved Super Sweets	44
Diamond Mine	76	Synergistic	43
Glacial	76	Improved Super Sweets	44
Mirage	78	Synergistic	43
Starfighter II	79	SH2	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

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



PRECIOUS GEM



LATTE

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

CORN BI-COLOR SU Normal		Priced per pound in these package sizes				
		1#	5#	25#	50#	100#*
01102	<b>Butter &amp; Sugar</b>	13.25	12.00	11.65	11.25	10.95
01103	<b>Honey &amp; Cream</b>	15.80	14.55	14.20	13.80	13.50

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

CORN		BI-COLOR SE									
		Relative Maturity	Ear Height	Ear Size length x diameter	Kernel Rows	Rust	Stewart's	NLB	Use	Eating Quality	Features
02189	<b>Fastlane</b>	67	14"	7 x 1.7"	14 - 16	M	S	S	FM, HG	**	A first early variety with good cold soil vigor, very attractive ear.
02137	<b>Temptation</b>	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	<b>Ambrosia</b>	75	20"	8 x 2"	16	S	R	M	FM, HG	***	A bi-color version of Bodacious with good vigor.
02178	<b>Luscious</b>	75	15"	8 x 1.9"	16 - 18	M	M	M	FM, HG	***	A hybrid that produces an attractive blunt ear on an excellent plant package.
02144	<b>Precious Gem</b>	80	20"	8 1/2 x 2"	16 - 18	M	M	M	FM, HG	**	A tender, tasty hybrid with good ear appearance. An easy snapper with good disease tolerance.
02150	<b>Jackpot</b>	82	20"	8 1/2 x 1.9"	16 - 18	R	M	M	FM, HG	**	A proven hybrid with good disease resistance and tip fill.
02109	<b>Peaches &amp; Cream EH</b>	83	26"	8 x 1.8"	16 - 18	S	S	M	HG	**	A popular home garden hybrid.
02132	<b>Delectable</b>	84	26"	9 x 2.1"	18	M	M	M	FM, HG	****	Bi-color version of Incredible. Large ear, dark green husk.

CORN BI-COLOR SE		M=1,000 seeds				
		Priced per pound in these package sizes				
		1#	5#	25#	50#	100#*
02126	<b>Ambrosia</b>	20.30	19.05	18.70	18.30	18.00
02132	<b>Delectable</b>	20.25	19.00	18.65	18.25	17.95

CORN BI-COLOR SE		M=1,000 seeds				
		Price per 1,000 seeds (M)				
		2.5M	10M	25M	100M	500M*
02189	<b>Fastlane</b> <small>Cruiser</small>	10.70	9.95	9.50	9.05	8.95
02150	<b>Jackpot</b>	7.95	6.70	6.35	5.95	5.65
02178	<b>Luscious</b> <small>Cruiser</small>	7.75	7.00	6.55	6.10	6.00
02109	<b>Peaches &amp; Cream EH</b> <small>Cruiser</small>	7.60	6.85	6.40	5.95	5.85
02144	<b>Precious Gem</b> <small>Cruiser</small>	9.50	8.75	8.30	7.85	7.75
02137	<b>Temptation</b> <small>Cruiser</small>	9.90	9.15	8.70	8.25	8.15

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

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QUICKSTART



TEMPTRESS★



PROFIT



CAPPUCCINO★



ALLURE★



NECTAR



ESSENCE



MONTAUK★



PRIMUS

**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 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 1/2 - 8 x 1.7"	12 - 16	-	-	-	FM	**	First early variety with excellent ear length in this class. Very good eating corn with a dark green husk package.	
04020	QuickStart	68	22"	8 x 1.8"	16	R	-	M	FM, HG	****	QuickStart is an exciting addition to our early maturity line up. It has a strong plant and large ear as well as excellent eating quality for its season. QuickStart has strong emergence and vigor and is a great choice for your early sweet corn plantings.	
★ 04049	Temptress	70	16"	7 3/4 x 2"	14 - 16	R	-	M	FM, HG	****	First "Quad Sweet" variety in our sweet corn lineup. Has an attractive ear with an eye-catching husk package. Moderately good cool soil emergence.	
04214	Profit	72	22"	8 x 1.8"	14	M	M	M	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	73	17"	7 1/2 - 8 x 1.9"	16	M	M	M	FM, HG	***	Superb eating quality. Plant mid to late season or for rain gap filler. Excellent disease package.	
★ 04009	Allure	75	25"	8 x 1.8"	16	R	R	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 1/4 x 1.9"	14 - 16	-	-	MR	FM, HG	*****	Very good eating quality. Excellent ear size for roadside markets. High quality package includes dark husk color and flags. Stalk has solid standability.	
04039	Essence	78	18"	8 x 1.8"	16 - 18	M	M	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	M	M	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 --->.



PROVIDENCE ★



SERENDIPITY



**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%

CORN		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 1/2 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	S	S	S	FM, HG	****	A variety with an added supersweet kick for extended shelf life and higher eating quality.

CORN BI-COLOR Synergistic		M=1,000 seeds				
Price per 1,000 seeds (M)		2.5M	10M	25M	100M	500M*
04009	Allure Cruiser	13.65	12.90	12.45	12.00	11.90
04044	Cappuccino Cruiser	13.60	12.85	12.40	11.95	11.85
04039	Essence Cruiser	13.80	13.05	12.60	12.15	12.05
04032	Latte Cruiser	13.95	13.20	12.75	12.30	12.20
04021	Montauk Cruiser	13.05	12.30	11.85	11.40	11.30
04052	Nectar Cruiser	13.30	12.55	12.10	11.65	11.55
04210	Primus Cruiser	13.35	12.60	12.15	11.70	11.60
04214	Profit Cruiser	12.35	11.60	11.15	10.70	10.60
04014	Providence Cruiser	10.60	9.85	9.40	8.95	8.85
04020	QuickStart Cruiser	13.25	12.50	12.05	11.60	11.50
04013	Serendipity Cruiser	9.65	8.90	8.45	8.00	7.90
04049	Tempress Cruiser	13.05	12.30	11.85	11.40	11.30

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

**INSECT SCOUTING RESOURCES**

[www.ruppseeds.com/InsectForecast](http://www.ruppseeds.com/InsectForecast)

Learn more about current corn insect pressure.



[www.ruppseeds.com/NYSweetCorn](http://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](http://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](http://www.ruppseeds.com/UMassSC)

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



[www.ruppseeds.com/uoiScout](http://www.ruppseeds.com/uoiScout)

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



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## 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.



### GROW YOUR BEST SWEET CORN!

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



<https://www.ruppseeds.com/vegetables/sweet-corn-guide>



CATALYST XR



BOLT XR



KICKOFF XR ★



SOLSTICE ★



HERO XR



IGNITION

CORN

BI-COLOR SH2 Extra Sweet & Improved Super Sweets

Pricing on page 41

		Relative Maturity	Ear Height	Ear Size length x diameter	Kernel Rows	Rust	Stewart's	NLB	Use	Eating Quality	Features
03117	<b>Catalyst XR</b>	66	27"	8 x 1.75"	16-18	R	-	-	FM, S	**	<i>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.</i>
03245	<b>Bolt XR</b>	67	16"	7.25 x 1.8"	14-18	R	-	M	FM	****	<i>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.</i>
★ 03038	<b>Kickoff XR</b>	69	28"	8 ¼ x 1.9"	16-18	M	-	MS	FM, S	****	<i>Impeccable eating quality for early in the season. Very good white to yellow kernel contrast. Strong tip fill. Tolerant to HPPD/ALS.</i>
★ 03109	<b>Solstice</b>	70	20"	7.5 x 1.8"	16	-	-	M	FM	*****	<i>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.</i>
03037	<b>Hero XR</b>	71	23"	7 ¾ x 1.8"	14-16	R	-	MS	S	**	<i>Excellent early variety with great husk protection. Kernels fill beautifully to form a very attractive ear early in the season. Tolerant to HPPD/ALS.</i>
03233	<b>Ignition</b>	72	23"	8" x 1.8"	16-18	IR	IR	IR	FM, HG	****	<i>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.</i>
★ 03215	<b>Signature XR</b>	72	27"	8 x 1.8"	16-18	R	-	-	FM	*****	<i>It has phenomenal IFSI Reserve eating quality. An attractive husk, excellent holding ability in the field, strong husk cover, and great ear size make Signature XR the choice for quality driven fresh markets.</i>
03003	<b>Anthem XR</b>	73	24"	8 x 1.8"	16-20	R	M	M	FM, S	****	<i>Excellent yield potential and better than average lodging tolerance. Superb eating quality. Great all season long.</i>
<b>NEW</b> 03246	<b>Superb MXR</b>	74	28"	8 X 1.9"	16-18	R	M	MS	FM, S	***	<i>Superb MXR's large ear size, improved husk protection and ability to handle difficult growing seasons make it an excellent choice for mid-season fresh and shipping markets.</i>
★ 03119	<b>Xanadu</b>	74-75	25"	8 x 2"	16-18	R	-	R	FM, HG	*****	<i>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.</i>
★ 03174	<b>Xtra Tender 274A</b>	74	23"	8 x 2"	18-20	S	M	S	FM, HG	****	<i>An IFSI bi-color hybrid with excellent cold soil vigor and fantastic eating quality. Has medium long husk protection. Tolerant to HPPD/ALS.</i>
03091	<b>Caliber XR</b>	75	21"	8 ¼ x 1.8"	16-18	M	-	MS	FM	***	<i>Superb eating quality with refined kernels for excellent texture. Plants are healthy and very clean for easier picking.</i>

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SIGNATURE XR ★



ANTHEM XR



SUPERB MXR **NEW**



XTRA TENDER ★  
274A



TROUBADOUR XR **NEW**



TEMPO XR



**UNIQUE TASTE & TEXTURE**  
From the Nirvana series of sweet corn from Crookham.



XANADU ★



NIRVANA ★



EDEN RMN ★

CORN		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 <b>Nirvana</b> 	75	24"	8 x 1.8"	16	M	-	R	FM, HG	*****	Combination of great vigor and emergence along with fantastic flavor and texture.
<b>NEW</b>	03123 <b>Troubadour XR</b> 	76	27"	8 x 2"	16-18	R		MS	FM, HG	*****	Has excellent husk protection and exceptional eating quality.
	03122 <b>Tempo XR</b> 	76	26"	8 x 2"	16-20	R	-	MS	FM	***	Tempo XR has excellent husk protection and consistent tip fill across varying environmental conditions. Tempo XR has a great ear size for mid-season roadside and fresh markets.
	03058 <b>American Dream</b> 	77	26"	7 1/2 x 2"	16-18	R	-	M	FM, HG	****	Trim ear with extraordinary tip fill. Eats exceptionally well. Beautiful flag leaves for improved marketability. An AAS winner.

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

CORN BI-COLOR SH2 Extra Sweet & Improved Super Sweets						
	Price per 1,000 seeds (M)	2.5M	10M	25M	100M	500M*
03199 <b>7143</b> <small>EX06767143 Cruiser</small>	12.45	11.70	11.25	10.80	10.70	
03058 <b>American Dream</b> <small>Cruiser</small>	14.65	13.90	13.45	13.00	12.90	
03003 <b>Anthem XR</b> <small>Cruiser</small>	14.15	13.40	12.95	12.50	12.40	
03007 <b>AP358</b> <small>Cruiser</small>	15.30	14.55	14.10	13.65	13.55	
03245 <b>Bolt XR</b> <small>Cruiser</small>	15.25	14.50	14.05	13.60	13.50	
03218 <b>Cadence XR</b> <small>Cruiser</small>	14.30	13.55	13.10	12.65	12.55	
03091 <b>Caliber XR</b> <small>Cruiser</small>	13.60	12.85	12.40	11.95	11.85	
03117 <b>Catalyst XR</b> <small>Cruiser</small>	14.55	13.80	13.35	12.90	12.80	
03216 <b>Crave</b> <small>Cruiser</small>	11.55	10.80	10.35	9.90	9.80	
03102 <b>Cumberland</b> <small>Cruiser</small>	12.45	11.70	11.25	10.80	10.70	
03039 <b>Enchanted</b> <small>Cruiser</small>	13.35	12.60	12.15	11.70	11.60	
03037 <b>Hero XR</b> <small>Cruiser</small>	13.55	12.80	12.35	11.90	11.80	
03103 <b>Honey &amp; Pearl</b>	10.35	9.60	9.15	8.70	8.60	
03233 <b>Ignition</b> <small>Cruiser</small>	13.90	13.15	12.70	12.25	12.15	

CORN BI-COLOR SH2 Extra Sweet & Improved Super Sweets						
	Price per 1,000 seeds (M)	2.5M	10M	25M	100M	500M*
03038 <b>Kickoff XR</b> <small>Cruiser</small>	14.65	13.90	13.45	13.00	12.90	
03025 <b>Nirvana</b> <small>Cruiser</small>	14.90	14.15	13.70	13.25	13.15	
04015 <b>Obsession</b> <small>Cruiser</small>	11.70	10.95	10.50	10.05	9.95	
03235 <b>Octane</b> <small>Cruiser</small>	13.90	13.15	12.70	12.25	12.15	
03215 <b>Signature XR</b> <small>Cruiser</small>	14.90	14.15	13.70	13.25	13.15	
03109 <b>Solstice</b> <small>Cruiser</small>	14.75	14.00	13.55	13.10	13.00	
03247 <b>Stamina MXR</b> <small>Cruiser</small>	14.75	14.00	13.55	13.10	13.00	
03246 <b>Superb MXR</b> <small>Cruiser</small>	14.35	13.60	13.15	12.70	12.60	
03122 <b>Tempo XR</b> <small>Cruiser</small>	14.70	13.95	13.50	13.05	12.95	
03123 <b>Troubadour XR</b> <small>Cruiser</small>	15.25	14.50	14.05	13.60	13.50	
03119 <b>Xanadu</b> <small>Cruiser</small>	15.20	14.45	14.00	13.55	13.45	
03174 <b>Xtra Tender 274A</b> <small>Cruiser</small>	12.70	11.95	11.50	11.05	10.95	

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



AP358



CADENCE XR



CRAVE



OCTANE ★



ENCHANTED



OBSESSION

CORN

BI-COLOR SH2 Extra Sweet & Improved Super Sweets

Pricing on page 41

		Relative Maturity	Ear Height	Ear Size length x diameter	Kernel Rows	Rust	Stewart's	NLB	Use	Eating Quality	Features
03007	<b>AP358</b>	78	20"	8 x 1.9"	16-18	M	M	M	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	<b>Cadence XR</b>	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	<b>Crave</b>	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	<b>Octane</b>	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	<b>Enchanted</b>	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	<b>Obsession</b>	79	24"	8 x 2"	18 - 20	M	M	M	S	**	A super sweet type hybrid from Seminis with excellent eating quality.
03199	<b>7143</b> <small>EX08767143</small>	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.
<b>NEW</b> 03247	<b>Stamina MXR</b>	80	28"	8 X 2"	16-18	R		MS	FM, HG	****	A late season, fresh market variety with exceptional eating quality, strong tip fill, ideal ear size, and excellent disease package.

CORN

WHITE SU Normal

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

CORN WHITE SU Normal

	Price per 1,000 seeds (M)	2.5M	10M	25M	100M	500M*
01202 <b>Silver Queen</b>		8.20	7.45	7.00	6.55	6.45

\* 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.

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7143 EX08767143



STAMINA MXR **NEW**



SILVER QUEEN



SILVER KING



ILLUSION **★**



DIAMOND MINE **NEW**

**POST HARVEST FINANCING AVAILABLE**  
 We offer a variety of financing options including 0% interest with no payments due until December 2024. **The best rates are available before 12/31/2023.**  
 See page 155 for all of the details on how to take advantage of this payment option.

**0%**

**JOHN DEERE FINANCIAL**



MIRAGE **★**



MATTAPOISETT



AVALON

CORN		WHITE SE									
		Relative Maturity	Ear Height	Ear Size length x diameter	Kernel Rows	Rust	Stewart's	NLB	Use	Eating Quality	Features
02231	<b>Silver King</b>	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 Synergistic - plant with SE varieties									
		Relative Maturity	Ear Height	Ear Size length x diameter	Kernel Rows	Rust	Stewart's	NLB	Use	Eating Quality	Features
<b>★</b>	04011 <b>Illusion</b>	72	28"	7 1/2 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.
<b>NEW</b>	03249 <b>Diamond Mine</b>	76	30"	8" X 1.8"	16-18			M	FM	*****	Has exceptional eating quality and glossy white kernels This tall, sturdy plant has good ear height and features excellent tip fill and husk protection. White version of Nectar.
<b>★</b>	04016 <b>Mirage</b>	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 <b>Mattapoissett</b>	80	18"	8 x 1.7"	16 - 18	M	M	M	FM, HG	****	A hybrid showing excellent plant type, ear and eating quality in our trials.
	04017 <b>Avalon</b>	82	20"	8 x 1.9"	16 - 18	S	M	M	FM	***	A white version of Providence.

CORN WHITE SE		Price per 1,000 seeds (M)				
		2.5M	10M	25M	100M	500M*
02231	<b>Silver King</b>	8.10	7.40	7.00	6.55	6.45

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

CORN WHITE Synergistic		Price per 1,000 seeds (M)					M=1,000 seeds
		2.5M	10M	25M	100M	500M*	
04017	<b>Avalon</b> Cruiser	10.60	9.85	9.40	8.95	8.85	
03249	<b>Diamond Mine</b> Cruiser	13.30	12.55	12.10	11.65	11.55	
04011	<b>Illusion</b> Cruiser	13.25	12.50	12.05	11.60	11.50	
04501	<b>Mattapoissett</b> Cruiser	13.25	12.50	12.05	11.60	11.50	
04016	<b>Mirage</b> Cruiser	12.65	11.90	11.45	11.00	10.90	

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



LEADOFF MXR



FREEDOM MXR



EDEN RMN ★



7401 IMP



GLACIAL ★



SV1580SC

CORN

WHITE SH2 Extra Sweet & Improved Super Sweets

		Relative Maturity	Ear Height	Ear Size length x diameter	Kernel Rows	Rust	Stewart's	NLB	Use	Eating Quality	Features
03243	<b>Leadoff MXR</b>	69	23"	7 1/4-8 x 1.9-2"	16-18	R	-	M	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	<b>Xtra Tender 372A</b>	72	23"	7 1/2 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	<b>Freedom MXR</b>	73	19"	7 1/2 - 8 x 1.8"	16	R	-	M	FM, HG	***	Great ear size and appearance. High yield potential. Strong lodging tolerance. Attractive husk package.
★ 03224	<b>Eden RMN</b>	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 taller plant. It adds a new level of dependability and will have strong marketshare for growers.
03049	<b>7401 Imp</b>	75	28"	8 x 1.8"	16-18	M	R	M	FM, HG	****	Bright kernel color. Good husk package. Fantastic flavor.
★ 03100	<b>Glacial</b>	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	<b>SV1580SC</b>	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	<b>Early Sunglow</b>	62	18"	7 x 1.7"	12-14	HG	*	Popular home garden variety.
01009	<b>NK 199</b>	84	48"	8 x 2"	18-20	HG	*	Mid-season, easy silking, large ear.
01012	<b>lochief</b>	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 <b>7401 Imp</b> <small>Cruiser</small>		12.95	12.20	11.75	11.30	11.20
03224 <b>Eden RMN</b> <small>Cruiser</small>		15.05	14.30	13.85	13.40	13.30
03204 <b>Freedom MXR</b> <small>Cruiser</small>		14.15	13.40	12.95	12.50	12.40
03100 <b>Glacial</b> <small>Cruiser</small>		12.45	11.70	11.25	10.80	10.70
03243 <b>Leadoff MXR</b> <small>Cruiser</small>		14.65	13.90	13.45	13.00	12.90
03017 <b>SV1580SC</b> <small>Cruiser</small>		12.30	11.55	11.10	10.65	10.55
03222 <b>Xtra Tender 372A</b> <small>Cruiser</small>		11.25	10.50	10.05	9.60	9.50

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

CORN YELLOW SU Normal

	Price per pound in these package sizes	1#	5#	25#	50#	100#*
01012 <b>lochief</b>		12.05	10.80	10.45	10.05	9.75
01009 <b>NK 199</b>		12.20	10.95	10.60	10.20	9.90
	Price per 1,000 seeds (M)	2.5M	10M	25M	100M	500M*
01001 <b>Early Sunglow</b>		6.05	5.30	4.85	4.40	4.30

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



BODACIOUS RM



GOLD NUGGETS



KANDY KORN



INCREDIBLE R/M



GOLD STANDARD

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



**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%



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	<b>Bodacious RM</b>	75	20"	8 x 1.8"	18	R	M	M	FM, HG	***	A rust resistant Bodacious, same flavor, superior plant and yield. Give this a try.	
02007	<b>Gold Nuggets</b>	75	24"	8 x 2"	20	M	M	M	FM, HG	****	The best eating SE, large eared, superior holding. Good for freezer corn.	
02005	<b>Kandy Korn EH</b>	81	31"	8 x 1.8"	14 - 16	M	M	M	FM, HG	**	Popular, red husked, market hybrid.	
02056	<b>Incredible R/M</b>	85	30"	9 x 2"	18	R	M	M	FM, HG	***	Rust resistant and MDM resistant Incredible.	

CORN		YELLOW Synergistic - plant with SE varieties									
		Relative Maturity	Ear Height	Ear Size length x diameter	Kernel Rows	Use	Eating Quality	Features			
04045	<b>Café</b>	68	15"	7.75 x 1.7	14	FM, HG	***	Yellow version of Latte.			
04008	<b>Inferno</b>	74	18"	8 ¼ x 1.8"	14 - 16	FM, HG	***	Has excellent husk cover with a dark green plant and flag leaves, creamy flavor with the right balance of texture.			
04004	<b>Gold Standard</b>	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	<b>Honey Select</b>	79	18"	8 ½ x 2"	18 - 20	FM, HG	***	A Syngenta AAS winner with similar genetic type to Serendipity only yellow kernels. Easy to grow, good vigor, and high sugars.			

CORN YELLOW SE						
	Priced per pound in these package sizes					
	1#	5#	25#	50#	100#*	
02055 <b>Bodacious RM</b>	19.35	18.10	17.75	17.35	17.05	
02007 <b>Gold Nuggets</b>	18.20	16.95	16.60	16.20	15.90	
02056 <b>Incredible R/M</b>	19.35	18.10	17.75	17.35	17.05	
	Price per 1,000 seeds (M)					
	2.5M	10M	25M	100M	500M*	
02005 <b>Kandy Korn EH</b>	7.60	6.90	6.50	6.10	6.05	

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

CORN YELLOW Synergistic						M=1,000 seeds				
	Price per 1,000 seeds (M)	2.5M	10M	25M	100M	500M*				
		04045 <b>Café</b> <small>Cruiser</small>	13.60	12.85	12.40	11.95	11.85			
04004 <b>Gold Standard</b> <small>Cruiser</small>	13.05	12.30	11.85	11.40	11.30					
04012 <b>Honey Select</b> <small>Cruiser</small>	8.65	7.90	7.45	7.00	6.90					
04008 <b>Inferno</b> <small>Cruiser</small>	12.20	11.45	11.00	10.55	10.45					

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



TAKEOFF MXR



ICON XR ★



XTRA TENDER  
1572



SS7403RY



SC1336



CORN

YELLOW 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
03223	<b>Takeoff MXR</b>	69	28"	8 x 1.9"	16 - 18	R	-	MS	FM, S	****	<i>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.</i>
★ 03124	<b>Icon XR</b>	72	26"	8 x 1.9"	16 - 18	R	-	MS	FM	****	<i>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.</i>
03031	<b>Xtra Tender 1572</b>	72	20"	7 1/2 - 8 x 1.9"	16 - 18	M	-	MS	FM, S	***	<i>Very good eating quality with dark green husk package and excellent flags. Overall high quality hybrid for roadside or shipping. Yellow version of Anthem.</i>
03041	<b>SS7403RY</b>	75	28"	8 x 2"	16 - 18	S	M	M	FM, S	***	<i>Use in early plantings. High eating quality with very good husk protection and color.</i>
03010	<b>SC1336</b>	81	22"	8 x 1.9"	18 - 20	M	M	M	FM, S	**	<i>An improved Passion with better tip cover.</i>
03006	<b>Illini Xtra Sweet</b>	85	17"	8 x 2"	18	M	M	M	HG	*	<i>The original Supersweet.</i>

CORN YELLOW SH2 Extra Sweet & Improved Super Sweets

	Price per 1,000 seeds (M)	2.5M	10M	25M	100M	500M*
03092 <b>4974 VX</b> Cruiser		12.15	11.40	10.95	10.50	10.40
03024 <b>ACcentuate</b> Cruiser		9.90	9.15	8.70		
03124 <b>Icon XR</b> Cruiser		14.90	14.15	13.70	13.25	13.15
03006 <b>Illini Xtra Sweet</b>		9.40	8.65	8.20	7.75	7.65
03010 <b>SC1336</b> Cruiser		12.15	11.40	10.95	10.50	10.40
03041 <b>SS7403RY</b> Cruiser		11.35	10.60	10.15	9.70	9.60
03223 <b>Takeoff MXR</b> Cruiser		14.65	13.90	13.45	13.00	12.90
03063 <b>Vista XR</b> Cruiser		11.25	10.50	10.05	9.60	9.50
03031 <b>Xtra Tender 1572</b> Cruiser		14.60	13.85	13.40	12.95	12.85

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

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## 2023 SWEET CORN TRIAL REPORT

This year on April 14th, we planted our cold soil trial. We looked at 29 different entries. Most of the entries were two row plots, 20 ft. long. In addition, we trialed four varieties to see how they performed in large block trial settings. I was able to work the ground down in the fall of '22, so I could plant into a stale seed bed. For the middle of April, the field planted nicely. From April 14th to May 5th, we averaged a soil temperature of 53.9 degrees at 2" deep. A few newer varieties we looked at were Kickoff XR, Bolt XR, 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 past year we introduced QuickStart, a 72-day bi-color from Crookham. I think it has a lot of potential, but due to coon damage we were unable to rate its flavor. QuickStart has performed well as an experimental number and we look forward to hearing how it performs for you.

In the Sh2 sweet corn trial, we evaluated 417 varieties. We looked at all of them in our main season trial, but also looked at some of them in different block trials (that included yield) and a late season block planted June 30th . We are still excited about the performance of Solstice, Xanadu, Octane, and Eden RMN. A couple of new ones that stuck out in my notes are Troubadour XR and Matriarch.

This year was the first year that I planted a late sweet corn trial. It was exciting to see how a few of our corns performed and held up in the late season disease pressure. I look forward to performing this trial again to build and establish a tread line to help growers capture that late season sweet corn premium.

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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](http://www.ruppseeds.com/OhioSH2C)



Purdue Supersweet Trial

[www.ruppseeds.com/PurdueSSC](http://www.ruppseeds.com/PurdueSSC)



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

*by: Pete Dinius - Product Development Lead*





R400MR **NEW** pg. 49

# POPCORN

## EATING QUALITY

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

## EATING QUALITY RATING

Good to Poor

## EXPANSION

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

## LODGING

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

## MUSHROOM SHAPE

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




## YIELD

Pounds of shelled corn adjusted to 13.5% moisture.

## STORAGE

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

CORN		ORNAMENTAL POPCORN	
▲	Days	Features	
06010 <b>Firecracker</b>	95	<i>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.</i>	
06015 <b>Little Boy Blue</b>	100	<i>A selection of small eared ornamental popcorn with 4" ears that are dark blue.</i>	
06006 <b>Little Indian</b>	100	<i>A popular variety with 4 - 5" multi-colored ears. Also very tender eating.</i>	
05510 <b>Seneca Mini Indian</b>	105	<i>A selection of miniature Indian corn with 5 - 6" ears. Attractive for ornamental uses.</i>	

CORN		POPCORN							
▲	Color	Days	Lodging	Yield per Acre	Expansion	Eating Quality	Mushroom	Features	
<b>Commercial Varieties</b>									
 06041 <b>R400MR</b> <sup>F1</sup>	Yellow	103	2%	5000 lbs. +	34	Good		<i>This popcorn has very high yield potential. Grows on a sturdy stalk with high resistance to common rust and Grey Leaf Spot. Intermediate resistance to Goss' Wilt. Vibrant orange kernels pop into mushroom flakes.</i>	
06039 <b>R98114W</b> <sup>F1</sup> 	White	105	2%	5000 lbs. +	45	Good	0	<i>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.</i>	
06040 <b>R997</b> <sup>F1</sup> 	Yellow	105	2%	5000 lbs. +	46	Good	0	<i>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.</i>	
06027 <b>Ruby Red</b> <sup>F1</sup>	Red	100	5%		38	Good	0	<i>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.</i>	
06026 <b>Shaman's Blue</b> <sup>F1</sup>	Dark Blue	105	5%		43	Good	0	<i>Dark blue popcorn hybrid. Has glossy dark blue kernels, large 8" ears, high expanding, and tender flakes. Good stalk strength.</i>	
<b>Heritage Varieties</b>									
06003 <b>Creme Puff</b>	Yellow	105						<i>A good popping quality, yellow hybrid that often produces two ears per stalk. Home garden.</i>	
06004 <b>Ipop 12</b>	Yellow	106	15%	3850 lbs.	38	Fair	15%	<i>An old, small seeded commercial hybrid that was once the standard for eating quality.</i>	
06007 <b>Japanese Hulless</b>	White	105						<i>A popular OP selection of white popcorn, for home garden.</i>	
06008 <b>Purdue 410</b>	Yellow	108	26%	3866 lbs.	40.8	Poor	4%	<i>A large, mushroom shaped kernelled, yellow hybrid well suited for caramel corn and craft projects.</i>	
06002 <b>Snow Puff</b>	White	100						<i>An early, small eared hybrid with good eating qualities well suited for the home gardener.</i>	

CORN ORNAMENTAL POPCORN					
Priced per package 4 oz.		Priced per pound in these package sizes			
		1#	5#	25#	50#
06010 <b>Firecracker</b>	9.75	26.65	17.75	17.50	17.25
06016U <b>Little Bow Peep</b> <sup>Untreated</sup>	10.35	27.55			
06015U <b>Little Boy Blue</b> <sup>Untreated</sup>	10.95	29.15	28.55	28.05	27.05
06006 <b>Little Indian</b>	10.05	27.40	18.25	18.00	17.75
05510 <b>Seneca Mini Indian</b>	5.90	16.15	10.75	10.50	10.25

CORN POPCORN					M=1,000 seeds
Price per 1,000 seeds (M)		2.5M	10M	25M	100M
<b>Commercial Varieties</b>					
06041 <b>R400MR</b>		7.70	7.20	6.95	6.70
06039 <b>R98114W</b> <sup>Cruiser</sup>		5.50	5.00	4.75	4.50
06040 <b>R997</b> <sup>Cruiser</sup>		5.50	5.00	4.75	4.50
06027 <b>Ruby Red</b>		10.90	10.40	10.15	9.90
06026 <b>Shaman's Blue</b>		9.95	9.45	9.20	8.95
Priced per package 4 oz.		Priced per pound in these package sizes			
		1#	5#	25#	50#*
<b>Heritage Varieties</b>					
06003U <b>Creme Puff</b> <sup>Untreated</sup>		5.00	12.75	8.50	8.25
06004U <b>Ipop 12</b> <sup>Untreated</sup>		5.00	12.75	8.50	8.00
06007U <b>Japanese Hulless</b> <sup>Untreated</sup>		4.10	10.35	6.90	6.40
06008U <b>Purdue 410</b> <sup>Untreated</sup>		5.00	12.75	8.50	8.00
06002U <b>Snow Puff</b> <sup>Untreated</sup>		5.00	12.75	8.50	8.00

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



AMERICAN WAY



EARTH TONES



FIESTA



INDIAN ART 104



INDIAN ART CRANBERRY



INDIAN ART RED FIRE

CORN

ORNAMENTAL CORN

	Days	Features
05535 <b>American Way</b>	115	A very large eared 10 - 13" variety that has become popular with fresh market growers.
05536 <b>Earth Tones</b>	105	Has marvelous shades of blue and green as well as traditional reds and oranges. Can be ground into cornmeal.
05507 <b>Fiesta</b>	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 <b>Indian Art 104</b> <sup>F1</sup>	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 <b>Indian Art Cranberry</b> <sup>F1</sup>	104	An ornamental hybrid with beautiful shades of pink, lavender to dark mauve. Good stalk strength with high yields. 10" ear.
05101 <b>Indian Art Red Fire</b> <sup>F1</sup>	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 <b>Maze Corn</b> <sup>F1</sup>	100 - 115	A conventional corn hybrid with the plant height, health and standability you'll need for a long-standing maze. Hybrid maturity is subject to change but is generally in the 100 to 115 day relative maturity which will be suitable for many growing areas. Can be harvested for grain once the season is complete. Be sure to use herbicides labeled for conventional corn.
VRRMAZE <b>RR Maze Corn</b> <sup>F1</sup>	100 - 115	A glyphosate herbicide-resistant corn hybrid with the plant height, health and standability you'll need for a long-standing maze. Hybrid maturity is subject to change but is generally in the 100 to 115 day relative maturity which will be suitable for many growing areas. Can be harvested for grain once the season is complete. A grower license for the herbicide trait is required. If you are not licensed, please call us to obtain an agreement, or go to <a href="http://www.agcelerate.com">www.agcelerate.com</a> to obtain a license.
VSHOCK <b>Shock Corn</b> <sup>F1</sup>	100 - 115	A conventional corn hybrid with the plant height, health and strength needed to create decorative corn shocks. Hybrid maturity is subject to change but is generally in the 100 to 115 day relative maturity which will be suitable for many growing areas.
06021 <b>Wampum</b>	95	An early version of ornamental corn, with diverse colors and ears that range from 3 1/2 - 5 1/2" in length. Developed by Dr. Baggett, Oregon State University. Larger diameter ear than Little Indian.

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

CORN ORNAMENTAL CORN

M=1,000 seeds

	Priced per package 4 oz.				
	1#	5#	25#	50#*	
05535 <b>American Way</b>	6.50	25.45	16.95	16.70	16.45
05536U <b>Earth Tones</b> <sup>Untreated</sup>	7.15	27.85	18.55	18.30	18.05
05507 <b>Fiesta</b>	5.40	21.15	14.10	13.85	13.60
05104 <b>Indian Art 104</b>	7.80	30.55	20.35	20.10	19.85
05108 <b>Indian Art Cranberry</b>	7.80	30.55	20.35	20.10	19.85
05101 <b>Indian Art Red Fire</b>	8.05	31.45	20.95	20.70	20.45
06021 <b>Wampum</b>	7.40	28.90	19.25	19.00	18.75
	Priced per package				
VMAZE <b>Maze Corn</b>			10M	25M	80M
					222.00
VRRMAZE <b>RR Maze Corn</b>					317.00
VSHOCK <b>Shock Corn</b>	40.95	81.90			222.00

Maze and Shock corn prices include shipping.

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

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CALIENTE 119



CALIENTE 199



CALIENTE ROJO



GULF ANNUAL RYEGRASS



HAIRY VETCH

**COVER CROPS**

	Seeding Rate pounds / acre	Features
--	-------------------------------	----------

**Biofumigants**  
*Caliente Brand mustards used for green manure and biofumigation can improve soil quality and reduce your reliance on chemicals for disease, weed and nematode control. Systems which are currently in commercial use are: Summer planting in rotation for potatoes, onions, beans and peas as well as spring and fall planting in rotation for beans, carrots, lettuce and strawberries. Give us a call to discuss your specific crop rotation needs.*

**CBIO.99002 Caliente 119** 10 - 12 *Improves soil health and productivity by increasing water penetration, reducing compaction, increasing water holding capacity, reducing wind erosion and increasing beneficial organisms. Also, when used correctly, it is a very effective soil fumigant. This mustard is planted in the spring.*

**CBIO.99003 Caliente 199** 9 - 11 *Produces excellent biomass with the highest "biofumigation" potential available. Excellent disease, weed, and nematode suppressions in many crops. This mustard is typically planted in the fall.*

**CBIO.99006 Caliente Rojo** 8 - 10 *Newest mustard release with purplish/red leaves and the highest glucosinolate production currently available. Vigorous growth with high leaf biomass and extensive root system. Good choice for organic or conventional growers with high disease and/or nematode pressure.*

**Cover Crops**

**CBWH.99004 Buckwheat** 20 - 35 *Cover crop to hold soil in place or green manure for plowdown. Excellent smother crop for competing weeds. Able to pull unusable phosphorus from the subsoil and deposit in the top layer.*

**CRYE.99006 Gulf Annual Ryegrass** 12 - 20 *Rapid germinating and fast establishing plant used for ground cover or soil stabilization. Does not tolerate extreme heat or cold. Excellent transitional grass.*

**CVET.99005 Hairy Vetch** 15 - 20 *Winter hardy legume. Referred to as "King of Nitrogen Producers". Forms a dense cover that weeds find difficult to penetrate.*

**COVER CROPS**

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



SUPER MAX **NEW** pg. 53

# CUCUMBERS

## PLANTING

Direct seed ½" - 1" soils with 60°F+ temperatures. Row spacing should range from 30" - 36" apart. Space plants 12" apart in the row.

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

## MANAGEMENT

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

## HARVEST

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

## STORAGE

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

## DISEASE CODES

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

## COLOR CODES

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

## HABIT TERMS

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

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

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

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



ALCAZAR ★



EXCELSIOR ★



KATRINA



CITADEL



EUREKA ★



SUPER MAX **NEW**

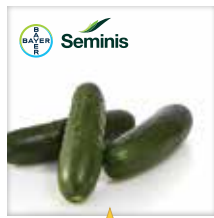
CUCUMBERS		PROTECTED CULTURE Parthenocarpic						
★	Code	Name	Season	Plant	Length	Color	Disease	Features
★	23572	<b>Alcazar</b> F1	Spring /Autumn	Vigorous	8 - 9 "	DG	CVYV, PM	A dark green slicer with excellent shelf life. Well suited to cooler temperatures.
	23569	<b>Camaro</b> F1	Spring /Autumn	Vigorous	13 - 16"	DG	PM	Fruit exudes excellent color and shape. Has intermediate resistance to powdery mildew.
	23576	<b>Corinto</b> 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	<b>Excelsior</b> 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	<b>Katrina</b> F1	Spring /Autumn	Compact / Vigorous	6 "	DG	Ccu, CMV, CVYV, PM	High quality small fruit that are extremely uniform. Early maturing fruit maintains high quality and production levels throughout the harvest season.

CUCUMBERS		PICKLING						Pricing on page 55	
★	Code	Name	Days	Habit	Plant	L/D Ratio	Color: Spine-Fruit	Disease	Features
	23551	<b>Bush Pickle</b>	45	MO	Bush	2.9	-	CMV, S	A bush vine type with concentrated set. For home gardeners.
	23001	<b>Calypso</b> F1	51	GY	Compact	3.1	W-MDG	A, ALS, PM, S	Very productive, widely adaptable.
	23002	<b>Carolina</b> F1	52	GY	Compact	2.95	W-MG	A, ALS, CMV, PM, S	High yielder, good briner, blocky.
	23005	<b>Citadel</b> 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	<b>Eureka</b> F1	53	MO	Compact	3.1	W-DG	A, ALS, CMV, PM, PRSV, S, WMV	A monoecious hybrid with unique disease tolerances. Compare with your current favorite.
	23101	<b>SMR 58</b>	56	MO	Vigorous	2.9	G	PM, S, TLS	Popular northern garden variety. Replaces Boston Pickling.
<b>NEW</b>	23008	<b>Super Max</b>	40-45	MO	Vigorous	3.1	MG	CMV, PRSV, WMV, ZYMV, Cca, Ccu	Thick skin with small seed cavity that is resistant to target leaf spot. High quality fruit ideal for fresh and processing markets.
	23003	<b>Supremo</b> F1	43	MO	Vigorous	3	W-DG	A, ALS, CMV, PM, PRSV, S, WMV, ZYMV	High quality dark green fruit with thick skin and a small seed cavity. Ideal for processing or fresh market. Can be staked or on the ground.
	23025	<b>Vlasstar</b> F1	52	P	Vigorous	3	W-MDG	A, ALS, CMV, PM, S	A medium dark, blocky pickle that picks over a sustained multiple harvest.

CUCUMBERS PROTECTED CULTURE				
	Priced per package	100 Seeds	500 Seeds	1000 Seeds
23572	<b>Alcazar</b>	30.40	101.20	168.60
23569U	<b>Camaro</b> Untreated	128.35	427.80	713.00
23576	<b>Corinto</b>	39.15	130.50	217.45
23574	<b>Excelsior</b>	24.90	82.90	138.15
23571	<b>Katrina</b>	39.20	130.65	217.75



BRICKYARD



BRISTOL ★



COBRA



DARLINGTON



RACEWAY ★



SV4719CS

CUCUMBERS

SLICERS

▲	Days	Habit	Plant	L/D Ratio	Color	Disease	Features
23502 <b>Brickyard</b> F1	50	GY	Vigorous	8"	DG	A, ALS, CMV, DM, PM, PRSV, S, WMV, ZYMV	<i>Brickyard is an early maturing variety which features a strong multi-virus resistance package that includes downy mildew resistance.</i>
★ 23512 <b>Bristol</b> F1	54	GY	Moderately Vigorous	8 ¼ x 2 ¼"	DG	A, ALS, CMV, DM, PM, PRSV, S, ZYMV	<i>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.</i>
23523 <b>Bush Crop</b>	55	MO	Restricted	7 ½"	MG	S	<i>An ideal variety for containers or small gardens.</i>
23004 <b>Cobra</b> F1	60	GY	Vigorous	9.5 x 2"	DG	A, ALS, CMV, PM, PRSV, S, WMV, ZYMV	<i>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.</i>
23568 <b>Darlington</b> F1	62	GY	Vigorous	8 - 9 x 2"	DG	A, ALS, CMV, PM, PRSV, S, TLS, WMV, ZYMV	<i>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.</i>
23503 <b>Dasher II</b> F1	58	GY	Vigorous	8 x 2 ¼"	VDG	A, CMV, PM, S	<i>High yielding market hybrid.</i>
23602 <b>Marketmore 76</b>	66	MO	Vigorous	8 - 9 x 2 ½"	VDG	CMV, PM, S	<i>Garden variety.</i>
★ 23505 <b>Raceway</b> F1	54	GY	Vigorous	8 ½"	DG	A, ALS, CMV, DM, PM, PRSV, S, WMV, ZYMV	<i>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.</i>
23606 <b>Spacemaster 80</b>	60	MO	Determinate	7 ½ x 2 ½"	DG		<i>Home garden and/or container.</i>
23601 <b>Straight Eight</b>	60	MO	Vigorous	8 x 2 ½"	DG		<i>Home garden slicer.</i>
23581 <b>SV4719CS</b> F1	56	GY	Moderately Vigorous	8 x 2 ¼"	DG	A-1, ALS, DM, PM, S, ZYMV	<i>An early gynococious slicer hybrid that features a vigorous vine and yields quality fruit that hold their uniform, dark green color well.</i>

CUCUMBERS

BURPLESS SLICERS

▲	Days	Habit	Plant	L/D Ratio	Color	Disease	Features
23546 <b>Burpless Bush</b> F1	55	PF	Bush	10 - 12"	DG		<i>A popular variety used by the bedding plant industry for the home gardener.</i>
23506 <b>Tasty Green</b> Burpless 26 F1	55	MO	Vigorous	9 - 12"	DG	DM, PM	<i>Very popular for the home garden.</i>





### 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%



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

[www.ruppseeds.com/fi400](http://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

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

### SLICER

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

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



*Pete Dinius*  
Product Development

### CUCUMBERS PICKLING

M=1,000 seeds

	Priced per package		M=1,000 seeds	
	1 oz.	4 oz.	1#	5#
23551 <b>Bush Pickle</b>	11.70	33.15	83.85	83.35
23001 <b>Calypso</b>	6.20	17.60	44.50	44.00
23002 <b>Carolina</b>	6.20	17.60	44.50	44.00
23101U <b>SMR 58</b> <sup>Untreated</sup>	3.70	10.45	26.45	25.95

	Priced per package		100 Seeds			
	Price per 1,000 seeds (M)		1M	5M	15M	75M*
23005 <b>Citadel</b> <sup>FI400</sup>	3.20	11.55	9.80	8.80	8.05	
23014 <b>Eureka</b> <sup>FI400</sup>	3.80	17.15	15.40	14.40	13.65	
23008 <b>Super Max</b> <sup>FI400</sup>	4.00	18.50	16.75	15.75	15.00	
23003 <b>Supremo</b> <sup>FI400</sup>	4.00	18.50	16.75	15.75	15.00	
23025 <b>Vlasstar</b> <sup>FI400</sup>	9.80	8.05	7.05	6.30		

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

### CUCUMBERS SLICERS

M=1,000 seeds

	Priced per package			M=1,000 seeds		
	1/2 oz.	1 oz.	4 oz.	1#	5#	25#
23523 <b>Bush Crop</b>	6.90	9.85	32.80	93.70	92.70	91.70
23602 <b>Marketmore 76</b>	7.15	16.25	44.10	43.60	43.10	
23606U <b>Spacemaster 80</b> <sup>Untreated</sup>	5.25	11.95	32.50	32.00	31.50	
23601U <b>Straight Eight</b> <sup>Untreated</sup>	5.05	11.85	31.50	31.25	31.00	

	Priced per package		100 Seeds				
	Price per 1,000 seeds (M)		1M	5M	15M	75M*	350M
23502 <b>Brickyard</b> <sup>FI400</sup>	18.35	16.85	15.85	15.10	14.10		
23512 <b>Bristol</b> <sup>FI400</sup>	5.30	19.25	17.75	16.75	16.00	15.00	
23004 <b>Cobra</b> <sup>FI400</sup>	22.25	20.75	19.75	19.00	18.00		
23568 <b>Darlington</b> <sup>FI400</sup>	7.35	26.70	25.20	24.20	23.45	22.45	
23503 <b>Dasher II</b> <sup>FI400</sup>	4.20	15.15	13.65	12.65	11.90	10.90	
23505 <b>Raceway</b> <sup>FI400</sup>	5.20	18.75	17.25	16.25	15.50	14.50	
23581 <b>SV4719CS</b> <sup>FI400</sup>	18.00	16.50	15.50	14.75	13.75		

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

### CUCUMBERS BURPLESS SLICERS

M=1,000 seeds

	Priced per package			M=1,000 seeds		
	1/2 oz.	1 oz.	4 oz.	1#	5#	25#
23546 <b>Burpless Bush</b>	9.45	13.50	43.20	127.00	126.00	125.00

	Priced per package		100 Seeds		
	Price per 1,000 seeds in these package sizes		1M	5M	15M
23506 <b>Tasty Green</b> <sup>Burpless 26</sup>	4.30	16.15	28.30	26.55	25.55



FAIRY TALE



GAUDI



HANSEL



MEGAL



MILLIONAIRE



NADIA

**EGGPLANT**

▲	Days	Plant Size	Fruit Shape	Color	Features
24001 <b>Black Beauty</b>	80	Large bush	Oval	Purple	Large fruited, home garden variety.
24505 <b>Epic</b> <sup>F1</sup>	64	36"	Oval	Purple Black	Commercial grower variety. Resistant to Tobacco Mosaic Virus.
24526 <b>Fairy Tale</b> <sup>F1</sup>	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 <b>Gaudi</b> <sup>F1</sup>	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 <b>Hansel</b> <sup>F1</sup>	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 <b>Megal</b> <sup>F1</sup>	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 <b>Millionaire</b> <sup>F1</sup>	55	22 - 26"	Slender	Brilliant Black	One of the best early, long Japanese eggplants.
24524 <b>Nadia</b> <sup>F1</sup>	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 <b>Night Shadow</b> <sup>F1</sup>	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 <b>Santana</b> <sup>F1</sup>	80	30"	Elongated Oval	Glossy Black Purple	A high yielding hybrid from Syngenta that performs where it matters most; yield, size and quality! One of the best for heat tolerance without fruit fading problems. Has reduced spines to prevent fruit scar.

**EGGPLANT**

M=1,000 seeds

Priced per package	1/4 oz.	1/2 oz.	1 oz.	4 oz.	1#
24001 <b>Black Beauty</b>			4.40	10.65	35.50
24520 <b>Millionaire</b>	35.65	62.00	99.20	298.20	
Priced per package	500 Seeds				
Price per 1,000 seeds (M)	1M	5M	25M	100M	
24505 <b>Epic</b>	7.65	12.20	11.10	10.70	10.15
24526 <b>Fairy Tale</b>	44.10	70.55	69.45	69.05	68.50
24502 <b>Gaudi</b>	19.60	31.30	30.20	29.80	29.25
24525 <b>Hansel</b>	44.10	70.55	69.45	69.05	68.50
24522 <b>Megal</b>	18.70	29.85	28.75	28.35	27.80
24524 <b>Nadia</b>	16.75	26.80	25.70	25.30	24.75
24521 <b>Night Shadow</b>	9.65	15.40	14.30	13.90	13.35
24516 <b>Santana</b>	12.45	19.85	18.75	18.35	17.80

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POST HARVEST FINANCING AVAILABLE

We offer a variety of financing options including 0% interest with no payments due until December 2024.

**The best rates are available before 12/31/2023.**

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

0%



JOHN DEERE  
FINANCIAL

ENDIVE / ESCAROLE		CHICORY	
	Days	Features	
<i>Endive - narrow, finely cut, curly leaves</i>			
25002	<b>Fine Green Curled</b>	80	<i>A Heritage variety. Dark green, curled, finely cut leaves with a fleshy midrib. Plants average 15 - 17" across.</i>
25005	<b>Lorca</b>	90	<i>A Salad King type with large, deep, well blanched heads that are refined and uniform. Tip burn resistant.</i>
25009	<b>Tosca</b> <small>Baby Endive</small>	45	<i>A Tres Fine type with resistance to bolting. Especially good for very early planting.</i>
25010	<b>Tres Fine Maraichere</b>	45	<i>A finely cut, lovely green and very fine baby endive with outstanding flavor for the truly French gourmet salads. A petite, fern-like mound.</i>
<i>Escarole - smooth, rounded, broad leaves</i>			
25001	<b>Broadleaf Batavian</b>	80	<i>A Heritage variety. Dark green leaf, white midrib. Upright growth, creamy yellow hearts. Escarole type.</i>

ENDIVE / ESCAROLE CHICORY		M=1,000 seeds			
		Priced per package		Priced per pound in these package sizes	
		1 oz.	4 oz.	1#	5#
25001U	<b>Broadleaf Batavian</b> <small>Untreated</small>	4.55	8.65	22.50	21.75
25002U	<b>Fine Green Curled</b> <small>Untreated</small>	4.55	8.65	22.50	21.75
		Priced per 1,000 seeds in these package sizes		10M	100M
25005U	<b>Lorca</b> <small>Untreated</small>			1.00	0.95
25009U	<b>Tosca</b> <small>Untreated</small>			1.00	0.95
25010U	<b>Tres Fine Maraichere</b> <small>Untreated</small>			0.50	0.45
25011U	<b>Twinkle</b> <small>Untreated</small>			1.30	



GIZMO pg. 60

# GOURDS

## PLANTING

Direct seed in soils that are above 70° F. Plant gourds ½" - 1" deep. For a general rule of thumb, plant seed the depth of three times the thickness of the seed. Plant spacing varies depending on fruit size. For small and miniature gourds plant at approximately 5 - 10 sq. ft. per plant. For large gourds plant them at 30 sq. ft. per plant.

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

## MANAGEMENT

Scout fields every 7 days to ensure crop health. Look for insect, weed, and disease pressure. The first three weeks focus on weeds and insect pressure. Then focus on disease pressure. For weed, insect, and disease identification and treatments consult the Midwest Vegetable Production Guide: [www.ruppseeds.com/MVPG](http://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	<b>Birdhouse Martinhouse</b>	100	A purified strain of the original birdhouse gourd. 10" diameter by 15" tall. Tan, smooth and hard shelled.
26002	<b>Bushel</b>	120	12 - 18" diameter with fruit weighing from 30 - 100 lbs. Excellent for arts and crafts when cured.
26016	<b>Calabash Penguin</b>	120	5" diameter, 12 - 15" long with a short curved neck. Fairly uniform shape.
26015	<b>Caveman's Club Maranka</b>	120	Club shaped fruit measures 15 - 18" long and approximately 6" in diameter. Makes a wrinkled, knobby bulb.
26035	<b>Extra Long Handled Dipper</b>	120	A dipper gourd with a 3 - 4' long handle. Grow on trellis for straight gourds.
26020	<b>Italian Edible</b> <small>Cucuzzi</small>	100	4 - 5" in diameter by 2 - 3' long, tapering toward stem end. Edible when young, becoming hard shelled at maturity.
26021	<b>Large Bottle</b>	120	A 5" in diameter by 12 - 14" fruit. Fruit will vary somewhat in size.
26033	<b>Large Speckled Apple</b>	120	A large true apple shaped gourd 4 - 5" in diameter and 6 - 7" tall. Great for table decorations.
26003	<b>Luffa</b> <small>Sponge</small>	130	8 - 12" long by 3 - 4" in diameter. After curing, peel outside shell to reveal the sponge.
26025	<b>Miniature Bottle</b>	100	A miniature sized bottle gourd, 2" in diameter by 4" long.
26004	<b>Mixed Large Types</b>	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	<b>Snake</b>	120	A long, coiled gourd.
26027	<b>Speckled Swan</b>	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	<b>Autumn Wings Large Swan</b> 	100	A unique gourd of many colors with wings, warts, and the fruit shape of a swan gourd. Its bulb size is 2 ½ or 3" in diameter with a neck up to 12" long. A grand addition to our other fancy ornamental selections for the ornamental trade.	
26502	<b>Autumn Wings Medium</b> 	100	A unique gourd of many colors with the fruit shape of a spoon but with wings. Its bulb size is 2 ½ or 3" in diameter with a neck up to 6" long. A grand addition to our other fancy ornamental selections for the ornamental trade.	
26503	<b>Autumn Wings Small</b> 	100	A unique gourd of many colors with wings and fruit shape of a swan pear. Its bulb size is 2 ½ or 3" in diameter with a neck up to 4 - 5" long. Has great potential for the shipper if the wings can be protected from breakage.	
26510	<b>Autumn Wings Blend</b> 	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® FI400**  
 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 gourd crops are under stress. [www.ruppseeds.com/fi400](http://www.ruppseeds.com/fi400)

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

GOURDS LAGENARIA SICERARIA							
	Priced per package	1 oz.		4 oz.		Seeds /lb.	
		Priced per pound in these package sizes		1#	5#		25#
26034 <b>Birdhouse Martinhouse</b>	10.05	23.55	66.80	65.80	64.80	3,500	
26034U <b>Birdhouse Martinhouse</b> <small>Untreated</small>	10.05	23.55	66.80	65.80	64.80	3,500	
26002U <b>Bushel</b> <small>Untreated**</small>	13.65	32.10	91.00	90.00	89.00	1,800	
26016 <b>Calabash Penguin</b>	10.50	24.70	70.00	69.00	68.00	2,500	
26015 <b>Caveman's Club Maranka</b>	13.65	32.10	91.00	90.00	89.00	2,300	
26035 <b>Extra Long Handled Dipper</b>	10.40	24.45	69.30	68.30	67.30	4,500	
26020 <b>Italian Edible</b>	10.50	24.70	70.00	69.00	68.00	2,600	
26021 <b>Large Bottle</b>	10.50	24.70	70.00	69.00	68.00	2,300	
26033 <b>Large Speckled Apple</b>	11.60	27.20	77.05	76.05	75.05	2,400	
26003 <b>Luffa</b>	13.65	32.10	91.00	90.00	89.00	5,200	
26025 <b>Miniature Bottle</b>	11.35	26.65	75.50	74.50	73.50	5,000	
26004 <b>Mixed Large Types</b>	11.95	28.05	79.45	78.45	77.45	2,400	
26031 <b>Snake</b>	10.50	24.70	70.00	69.00	68.00	2,600	
26027 <b>Speckled Swan</b>	10.40	24.45	69.30	68.30	67.30	2,200	

\*\* 15 seeds for \$5.00



AUTUMN WINGS  
LARGE SWAN



AUTUMN WINGS  
MEDIUM



AUTUMN WINGS  
BLEND



GALAXY OF STARS



GIZMO



HOARGARTH

GOURDS

PEPO

	Days	Features
26042 <b>Galaxy of Stars</b>	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 <b>Gizmo</b>	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 <b>Hoargarth</b>	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 <b>Lunch Lady</b>	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 <b>Rupp Fancy Warted</b>	100	<b>Limited Supply</b> A mixture of warted gourds with shapes like spoons, pears, and rounds; all warted and very colorful.
26005 <b>Rupp Small Formula Blend</b>	90 - 100	<b>Limited Supply</b> A blend of fancy small types with a few plain varieties. Includes Shenot Crown of Thorns, Rupp Fancy Warted and Small Spoon.
26013 <b>Small Flat Striped</b>	90	A green fruit with yellow stripes that is 3" in diameter by 2" high.
26011 <b>Small Spoon</b>	90	A bicolor yellow and green fruit that is shaped like a small club or dipper.

GOURDS PEPO

M=1,000 seeds

Priced per package	250 Seeds					Seeds /lb.
	1M	5M	25M	55M		
Price per 1,000 seeds (M)						
<b>Autumn Wings Large Swan</b>	9.70	27.65	26.65	25.65	24.65	7,300
<b>Autumn Wings Large Swan</b> <sup>F1400</sup>	11.90	33.95	32.95	31.95	30.95	7,300
<b>Autumn Wings Large Swan</b> <sup>Untreated</sup>	9.70	27.65	26.65	25.65	24.65	7,300
<b>Autumn Wings Medium</b>	9.70	27.65	26.65	25.65	24.65	8,000
<b>Autumn Wings Medium</b> <sup>F1400</sup>	11.90	33.95	32.95	31.95	30.95	8,000
<b>Autumn Wings Medium</b> <sup>Untreated</sup>	9.70	27.65	26.65	25.65	24.65	8,000
<b>Autumn Wings Small</b>	9.70	27.65	26.65	25.65	24.65	7,800
<b>Autumn Wings Small</b> <sup>F1400</sup>	11.90	33.95	32.95	31.95	30.95	7,800
<b>Autumn Wings Small</b> <sup>Untreated</sup>	9.70	27.65	26.65	25.65	24.65	7,800
<b>Autumn Wings Blend</b>	9.70	27.65	26.65	25.65	24.65	8,000
<b>Autumn Wings Blend</b> <sup>F1400</sup>	11.90	33.95	32.95	31.95	30.95	8,000
<b>Galaxy of Stars</b>	31.55	90.05	89.05	88.05	87.05	10,000
<b>Galaxy of Stars</b> <sup>F1400</sup>	33.75	96.35	95.35	94.35	93.35	10,000
<b>Galaxy of Stars</b> <sup>Untreated</sup>	31.55	90.05	89.05	88.05	87.05	10,000

GOURDS PEPO

M=1,000 seeds

Priced per package	250 Seeds					Seeds /lb.
	1M	5M	25M	55M		
Price per 1,000 seeds (M)						
<b>Gizmo</b> <sup>F1400</sup>	39.65	113.15	112.15	111.15	110.15	6,600
<b>Hoargarth</b> <sup>F1400</sup>	38.30	109.40	108.40	107.40	106.40	3,500
<b>Rupp Fancy Warted</b>	4.95	14.05	13.05	12.05	11.05	9,400
<b>Rupp Fancy Warted</b> <sup>F1400</sup>	7.15	20.35	19.35	18.35	17.35	9,400
<b>Rupp Fancy Warted</b> <sup>Untreated</sup>	4.95	14.05	13.05	12.05	11.05	9,400
<b>Rupp Small Formula Blend</b>	3.85	10.95	9.95	8.95	7.95	9,300
<b>Rupp Small Formula Blend</b> <sup>F1400</sup>	6.05	17.25	16.25	15.25	14.25	9,300

GOURDS PEPO

M=1,000 seeds

Priced per package	1 oz.		4 oz.		Seeds /lb.	
	1#	5#	25#			
Priced per pound in these package sizes						
<b>Lunch Lady</b>	21.30	50.05	146.00	143.00	140.00	3,300
<b>Small Flat Striped</b>	14.55	34.15	99.60	96.60	93.60	9,700
<b>Small Spoon</b>	14.55	34.15	99.60	96.60	93.60	11,000



LUNCH LADY



RUPP FANCY WARTED



RUPP SMALL FORMULA BLEND



FRESH PAK



CELINET



BOLSACHICA

ORDERS OVER \$350 ARE SHIPPED FREE!



AEROSTAR



TAMARINDO



RED DRAGON



DERONDA



MIZ AMERICA

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

Additional Greens descriptions and pricing can be found on the next page -->.



SEASIDE



FIRE FRESH



RED GIANT  
MUSTARD

**POST HARVEST FINANCING AVAILABLE**

We offer a variety of financing options including 0% interest with no payments due until December 2024.

**The best rates are available before 12/31/2023.**

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

0%



**JOHN DEERE  
FINANCIAL**

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

GREENS	M=1,000 seeds			
	Price per package	1 oz.	4 oz.	1#
<i>Asian</i>				
49009U	<b>Mizuna Japanese Green</b> <sup>Untreated</sup>	4.00	9.05	25.85
49006U	<b>Tatsoi Oriental Green</b> <sup>Untreated</sup>	4.45	10.05	28.60
<i>Gourmet</i>				
25504U	<b>Peppergrass Cress</b> <sup>Untreated</sup>	3.00	6.75	19.25
25503U	<b>Rocket Arugula</b> <sup>Rugola</sup> <sup>Untreated</sup>	3.45	7.80	22.25
25507U	<b>Sorrel</b> <sup>Untreated</sup>	6.55	14.85	42.40
25505U	<b>Upland Cress</b> <sup>Untreated</sup>	2.95	6.60	18.75
<i>Mustard</i>				
25508U	<b>Red Giant Mustard</b> <sup>Untreated</sup>	4.40	10.00	28.50
<i>Price per 1,000 seeds (M)</i>				
		25M	100M	500M*
<i>Gourmet</i>				
25501	<b>Grazia Wild Arugula</b>	0.26	0.20	0.10
<i>Price per 1,000 seeds (M)</i>				
		5M	100M	500M*
<i>Baby Leaf - Beet</i>				
14201	<b>Fresh Pak</b>	0.66	0.60	0.50
<i>Baby Leaf - Mustard</i>				
32100	<b>Miz America</b>	0.44	0.38	0.28

GREENS	M=1,000 seeds			
	Price per 1,000 seeds (M)	5M	100M	500M*
<i>Baby Leaf - Spinach</i>				
41006	<b>Seaside</b>	0.57	0.51	0.41
<i>Baby Leaf - Swiss Chard</i>				
43100	<b>Fire Fresh</b>	0.64	0.58	0.48
<i>Baby Leaf Lettuce - Green Leaf</i>				
30107U	<b>Celinet</b> <sup>Untreated</sup>	0.95	0.85	0.75
<i>Baby Leaf Lettuce - Green Oak Leaf</i>				
30101U	<b>Bolsachica</b> <sup>Untreated</sup>	0.95	0.85	0.75
<i>Baby Leaf Lettuce - Green Romaine</i>				
30102U	<b>Aerostar</b> <sup>Untreated</sup>	0.95	0.85	0.75
<i>Baby Leaf Lettuce - Red Leaf</i>				
30104U	<b>Tamarindo</b> <sup>Untreated</sup>	0.95	0.85	0.75
<i>Baby Leaf Lettuce - Red Oak Leaf</i>				
30109U	<b>Red Dragon</b> <sup>Untreated</sup>	0.95	0.85	0.75
<i>Baby Leaf Lettuce - Red Romaine</i>				
30108U	<b>Deronda</b> <sup>Untreated</sup>	0.95	0.85	0.75

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

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AYA **NEW**



EMILY



EVERLEAF EMERALD TOWERS



EVERLEAF GENOVESE



GENOVESER



STARO

## GROUND CHERRY

### Features

26500 **Aunt Molly's Ground Cherry** <sup>Husk Tomato</sup>

That old, difficult-to-find heritage item cherished in pies, over ice cream, or in fresh fruit salads. The ½ - ¾" fruit are encased in a papery husk that turns brown when the fruit ripens. Grows on small vine on the ground.

## GROUND CHERRY

Priced per package

100 Seeds	500 Seeds	1M
4.55	7.00	10.00

26500U **Aunt Molly's Ground Cherry** <sup>Untreated</sup>

## HERBS FOR THE PROFESSIONAL

Pricing on page 65

Annual / Perennial

Features

### Basil

Code	Name	Annual / Perennial	Features
<b>NEW</b> 27041	<b>Aya</b>	A	New generation of downy mildew protected basil. This semi-compact unique and elegant plant can be used for container and field production. Its leaves are dark, shiny, and flat-spoon shaped. Expect a massive stem and a highly productive plant. Maturity is about 40-55 days from sowing.
27023	<b>Cinnamon</b>	A	A cinnamon fragrance combined with basil's sweet essence. Leaves make a delicate flavored jelly, excellent tea, and adds a new flavor when used in your favorite recipes.
27035	<b>Emily</b>	A	A compact Genovese type basil with medium to large leaves. Because of improved shelf life Emily is recommended for summer production and year round in hot climates; works well in the field or greenhouse. Excellent performance against Fusarium.
27019	<b>Everleaf Emerald Towers</b>	A	This proved to be the best basil in our trials. Flowers up to 10 to 12 weeks later than standard basil. Well-branched variety with dark green, glossy foliage and short internodes. Makes a beautiful towering plant with huge harvest potential that stays tidy for many uses, including in-ground, container gardens and hydroponics. Traditional Genovese flavor is perfect for eating fresh in caprese salad or chopped fresh in recipes.
27006	<b>Everleaf Genovese</b>	A	The first basil bred for season-long performance and continual harvesting. Flowers up to 8 weeks later than standard basil. Compact, highly branched plant perfect for in-ground and potted plant production. Robust Genovese flavor, perfect for pesto and other sauces. Intermediate resistance to downey mildew and resistant to Fusarium.
27033	<b>Genoveser</b>	A	A special, high yielding strain, dark green, cup shaped selection, glossy leaf, recommended for field production.
27012	<b>Italian Large Leaf</b>	A	Leaves are broad, oval and crinkly with spicy flavor. Used in perfumes, Italian seasonings, and soups.
27017	<b>Lemon</b>	A	Pleasing citrus aroma, excellent in vinegars or with fish.
27040	<b>Rosie</b>	A	A selection with intensive red color, excellent aroma and quick growing. Recommended for field or greenhouse production.
27030	<b>Siam Queen</b>	A	An improved cultivar of ornamental and aromatic Thai basil. Has 3" leaves, distinctive purple stems, and is an eye-catching addition with flowers for an edible landscape accent. Has an exotic flavor.

### Borage

27004	<b>Borage</b>	A	Flavor similar to cucumbers, used to flavor soups, salads, curries, fish and chicken dishes. Blue star shaped flower is also edible and an attractant to bees.
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### Catnip

27509	<b>Catnip</b>	P	A vigorous growing mint loved by cats. Grayish green leaves have a strong mint-like flavor.
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### Chervil

27005	<b>Chervil</b>	A	The fine cut, deep green leaves look like a delicate, lacy version of parsley. Flavor is a mild anise/parsley and goes well with fish, seafood, eggs or in salads. At its best fresh from the garden.
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Additional Herbs can be found on the next page --->.



GREEN SLEEVES



MARJORAM, SWEET

OREGANO  
VULGARE

GIGANTE D'ITALIA



SAGE



SUMMER SAVORY

## HERBS FOR THE PROFESSIONAL

Pricing on page 65

	Annual / Perennial	Features
<b>Chives</b>		
27510 <b>Garlic</b>	P	Leaves add a mild, delicate but distinctive garlic flavor to your favorite dishes. Best when raw or briefly cooked. The pretty white flowers also add flavor and eye appeal.
27515 <b>Nelly</b>	P	A fine to medium thick shafted, dark blue green variety. Strong against diseases, thrip spots and leaf tips. For fresh market and industry uses.
27514 <b>Staro</b>	P	Extra thick, dark green leaved variety for all growing purposes. Excellent for forcing and pot growing as well as field production.
<b>Coriander / Cilantro</b>		
27002 <b>Calypso</b>	A	British bred coriander has excellent bolting resistance and can be cut back and allowed to re-grow at least 3 times throughout the summer due to its extremely low growing point. This quick growing annual herb is best grown for its delicious foliage that can be added to salads, curries and soups.
27013 <b>Santo</b>	A	A fast growing, yet slow bolting strain with very high yield. For Mexican and Oriental cooking. Monogerm seed.
<b>Dill</b>		
27007 <b>Bouquet</b>	A	A development from Mammoth Dill. Used in pickles and salad dressings. Adds zest to salads, soups, and vegetables.
27516 <b>Green Sleeves</b>	A	A very stable, fast growing, medium fine leafed variety of dark green dill for production of fresh bundles. Strong bolt resistance. 2 - 2 ½ feet tall.
<b>Fennel</b>		
27008 <b>Fennel</b> <sup>Florence</sup>	A	Anise like flavor is used to flavor eggs, fish and sauces. The celery stems, bulbs and foliage are used fresh or cooked.
<b>Lavender</b>		
27502 <b>Lavender</b> <sup>Vera</sup>	P	Great for dried flowers, perfuming linens, and repelling moths. Hardy.
<b>Marjoram</b>		
27009 <b>Marjoram</b> <sup>Sweet</sup>	A	Used fresh or dried for seasonings in salads, vegetables, meats, soups, eggs, peas and beans.
<b>Oregano</b>		
27503 <b>Oregano</b> <sup>Vulgare</sup>	P	Purple flowered. Seasons tomato sauces, fish, salad dressings and pizza.
<b>Parsley</b> additional Parsley on page 81		
35012 <b>Gigante d'Italia</b>	A	A plain, dark green, large leaf sized variety; very aromatic and high yielding with multiple cuts.
<b>Peppermint</b>		
27504 <b>Peppermint</b>	P	Leaves used as mint tea and as a meat garnish. In addition, the mint oil has many other uses.
<b>Rosemary</b>		
27505 <b>Rosemary</b>	P	Leaves are used in seasoning meats, sauces, and wonderful for potpourri.
<b>Sage</b>		
27506 <b>Sage</b>	P	Most widely used herb. Seasons poultry, sausage, etc.
<b>Summer Savory</b>		
27011 <b>Summer Savory</b>	A	Fresh or dried, used as seasonings in gravies and stews.
<b>Thyme</b>		
27508 <b>German Winter</b>	P	Excellent seasoning for soups, i.e. clam chowder, as well as poultry, stews, sauces, pickles and salads.



**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%

**POST HARVEST FINANCING AVAILABLE**

We offer a variety of financing options including 0% interest with no payments due until December 2024.

**The best rates are available before 12/31/2023.**

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



**JOHN DEERE FINANCIAL**

**HERBS FOR THE PROFESSIONAL**

Price per package/pound	M=1,000 seeds					
	1/4 oz	1 oz.	4 oz.	1#	5#	25#
<b>Basil</b>						
27041U <b>Aya</b> Untreated	7.20	22.95	67.50	180.00	179.00	
27023U <b>Cinnamon</b> Untreated	3.45	11.00	32.35	86.25	85.25	
27012U <b>Italian Large Leaf</b> Untreated	2.75	3.75	10.90	29.00	28.00	27.00
27017U <b>Lemon</b> Untreated	3.90	12.40	36.40	97.00	96.00	
27030U <b>Siam Queen</b> Thai Untreated	7.00	22.25	65.35	174.25	173.25	
<b>Borage</b>						
27004U <b>Borage</b> Untreated	3.50	4.35	12.40	33.00	32.00	
<b>Catnip</b>						
27509U <b>Catnip</b> Untreated	3.00	7.05	20.65	55.00		
<b>Chervil</b>						
27005U <b>Chervil</b> Untreated		3.50	9.40	25.00	24.00	
<b>Chives</b>						
27510U <b>Garlic</b> Untreated	3.50	8.50	24.90	66.35	65.35	64.35
<b>Coriander / Cilantro</b>						
27002U <b>Calypso</b> Untreated		3.00	4.00	10.60	9.60	8.60
27013 <b>Santo</b>		3.75	5.65	15.00	14.00	13.00
<b>Dill</b>						
27007U <b>Bouquet</b> Untreated		3.50	6.70	17.85	16.85	15.85
<b>Fennel</b>						
27008U <b>Fennel</b> Florence Untreated		4.20	12.20	32.50	31.50	
<b>Lavender</b>						
27502U <b>Lavender</b> Vera Untreated	7.30	23.30	68.45	182.50	181.50	
<b>Marjoram</b>						
27009U <b>Marjoram</b> Sweet Untreated		10.35	30.40	81.00	80.00	
<b>Oregano</b>						
27503U <b>Oregano</b> Vulgare Untreated	6.70	21.40	62.90	167.65	166.65	
<b>Parsley</b>						
35012 <b>Gigante d'Italia</b>		5.25	7.30	20.75	19.75	18.75
<b>Peppermint</b>						
27504U <b>Peppermint</b> Untreated	28.55	91.30	268.50	716.00	715.00	
<b>Rosemary</b>						
27505U <b>Rosemary</b> Untreated	29.95	95.80	281.65	751.00	750.00	
<b>Sage</b>						
27506U <b>Sage</b> Untreated		12.30	35.80	95.35	94.35	
<b>Summer Savory</b>						
27011U <b>Summer Savory</b> Untreated	4.20	12.00	31.90	30.90		

**HERBS FOR THE PROFESSIONAL**

Price per 1,000 seeds (M)	M=1,000 seeds			
	1M	5M	25M	100M
<b>Basil</b>				
27003 <b>Eleonora</b>	3.55	2.05	0.80	0.30
27035 <b>Emily</b>	3.60	2.10	0.85	0.35
<b>Everleaf Emerald Towers</b>				
27019 <b>Towers</b>	22.00	20.50	19.25	18.75
27006 <b>Everleaf Genovese</b>	22.00	20.50	19.25	18.75
27033 <b>Genoveser</b>	3.55	2.05	0.80	0.30
27040 <b>Rosie</b>	3.65	2.15	0.90	0.40
<b>Chives</b>				
27515 <b>Nelly</b>	3.60	2.10	0.85	0.35
27514 <b>Staro</b>	3.60	2.10	0.85	0.35
<b>Dill</b>				
27516 <b>Green Sleeves</b>	3.45	1.95	0.70	0.20
<b>Thyme</b>				
27508U <b>German Winter</b> Untreated	3.50	2.00	0.75	0.25

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BLACK MAGIC



BLUE RIDGE



PIGEON PURPLE



PIGEON RED



PIGEON VICTORIA



PIGEON WHITE

KALE		Height	Features
<b>Fresh Market</b>			
28005	<b>Black Magic</b>	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	<b>Blue Ridge</b> <sup>F1</sup>	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	<b>Dwarf Green Curled Afro</b>	12 - 14"	Good uniformity. It handles cold weather extremely well.
<b>Heritage Varieties</b>			
28001	<b>Dwarf Blue Curled Scotch</b>	12 - 14"	Tightly curled, dark blue color used many times for decoration of salad bars.
28004	<b>Red Russian</b>	24 - 36"	The most tender, mild flavored kale variety. Will wilt soon after harvest; should be cooled or consumed promptly.
28002	<b>Siberian</b>	12 - 15"	Very hardy, grown mostly in the South. Large coarse leaves with frilled edges. Bluish green.
<b>Ornamental Flowering Varieties</b>			
28505	<b>Pigeon Purple Flowering Kale</b> <sup>F1</sup>		A unique series of ornamental kales for the garden landscape and combination planters. Compact, dwarf plants with uniform, round shaped, solid heads and slightly waved leaves. Heads begin to show colors on the central leaves when the air temperature regularly drops below 55 - 60° F. Plant height 6 - 10 inches.
28506	<b>Pigeon Red Flowering Kale</b> <sup>F1</sup>		
28507	<b>Pigeon Victoria Flowering Kale</b> <sup>F1</sup>		
28508	<b>Pigeon White Flowering Kale</b> <sup>F1</sup>		

KALE		M=1,000 seeds			
Price per 1,000 seeds (M)		1M	5M	25M	100M
28005	<b>Black Magic</b>	3.80	2.75	2.00	1.50
28504	<b>Blue Ridge</b>	10.25	9.20	8.45	7.95
28006U	<b>Dwarf Green Curled Afro</b> <sup>Untreated</sup>	3.80	2.75	2.00	1.50
Priced per package		<b>4 oz.</b>			
Priced per pound					
in these package sizes		<b>1#</b>	<b>5#</b>	<b>25#</b>	
28001U	<b>Dwarf Blue Curled Scotch</b> <sup>Untreated</sup>	6.90	15.70	15.20	
28004U	<b>Red Russian</b> <sup>Untreated</sup>	14.50	32.25	31.75	31.50
28002U	<b>Siberian</b> <sup>Untreated</sup>	6.90	15.70	15.20	14.95
Priced per package		<b>500 Seeds</b>		<b>1,000 Seeds</b>	
<b>Ornamental Flowering Kale</b>					
28505U	<b>Pigeon Purple</b> <sup>Untreated</sup>		13.30	21.00	
28506U	<b>Pigeon Red</b> <sup>Untreated</sup>		13.30	21.00	
28507U	<b>Pigeon Victoria</b> <sup>Untreated</sup>		13.30	21.00	
28508U	<b>Pigeon White</b> <sup>Untreated</sup>		13.30	21.00	

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KOLIBRI



QUICKSTAR



TADORNA

ORDERS  
OVER \$350  
ARE SHIPPED  
FREE!

KOHLRABI		Days	Features
<b>Fresh Market</b>			
29002	<b>Kolibri</b> <sup>F1</sup>	45	Prettiest, most uniform purple variety available. 3" bulb with deep purple skin and crisp white flesh.
29004	<b>Quickstar</b> <sup>F1</sup>	49	A Sakata variety that is slow to bolt. Slightly broad dark green leaves. Extremely uniform fruit.
29005	<b>Winner Improved</b> <sup>F1</sup>	57	A medium early, higher yielding hybrid than Grand Duke with larger bulbs and later to pithiness.
<b>Heritage Varieties</b>			
29501	<b>Early Purple Vienna</b>	60	Reddish-purple colored bulb that is a slightly flattened globe, with tender white flesh.
29502	<b>Early White Vienna</b>	55	Similar in habit to Early Purple Vienna except medium green color.

LEEK		Days	Features
30903	<b>Large American Flag</b>	85	Heritage Variety. Used for flavoring soups. 8 - 10" stems, mild flavor.
30908	<b>Tadorna</b>	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	<b>Early Purple Vienna</b> <sup>Untreated</sup>	6.60	17.25	15.75	
29502U	<b>Early White Vienna</b> <sup>Untreated</sup>	6.55	17.00	15.50	
Price per 1,000 seeds (M)		1M	5M	25M	100M
29002	<b>Kolibri</b>	20.00	19.45	18.95	18.45
29004	<b>Quickstar</b>	9.30	8.75	8.25	7.75
29005	<b>Winner Improved</b>	6.50	5.95	5.45	4.95

LEEK		M=1,000 seeds			
Priced per package		1 oz.	4 oz.	1#	
Price per 1,000 seeds (M)		1M	10M	100M	500M*
30903U	<b>Large American Flag</b> <sup>Untreated</sup>	3.80	13.70	36.45	
30908P	<b>Tadorna</b> <sup>Pelleted</sup>	6.60	6.35	6.15	6.00

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



CHEF'S DELIGHT BLEND pg. 70

# LETTUCE

## PLANTING

**Raw Seed Lettuce:** Prep the ground so the soil is as fine and loose as possible. Make a seed trench with tines on garden rake. Lightly sprinkle seed in every other trench. Seed should be roughly 1/8" - 1/4" deep. Lightly cover the seed with fine soil.

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

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

## MANAGEMENT

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

## HARVEST

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

## STORAGE

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



ALKINDUS



BARILLA



MERIDIAN



SOMERSET



BERGAM'S GREEN

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NEW RED FIRE



RED MIST



BREEN



TETON

LETTUCE		Features
<b>Butterhead</b>		
30309	<b>Alkindus</b> <sup>Red</sup>	A mid-sized variety with beautiful dark red color which is suitable for full season production.
30504	<b>Barilla</b> <sup>Green</sup>	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.
<b>Iceberg</b>		
30705	<b>Meridian</b> <sup>Green</sup>	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	<b>Somerset</b> <sup>Green</sup>	A new summer Iceberg producing a flat round head with smooth ribs and great head protection. Somerset has good tolerance to tipburn and bolting.
<b>Leaf</b>		
30304	<b>Bergam's Green</b> <sup>Green</sup>	A non-heading, dark green variety.
30016	<b>New Red Fire</b> <sup>Red</sup>	The premier red lettuce for market growers. Superior appearance. Mosaic indexed.
30013	<b>Red Mist</b> <sup>Red &amp; Green</sup>	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.
<b>Romaine</b>		
30214	<b>Breen</b> <sup>Red</sup>	A unique variety due to its brilliant purple-red exterior color and the interior green color. Top closes nicely, resulting in a perfect formed heart. Great tasting with excellent shelf life.
30215	<b>Teton</b> <sup>Green</sup>	Taller and darker plant for spring and fall harvest. Early maturing and produces large and heavy heads.
<b>Romaine Heart</b>		
30203	<b>Arroyo</b> <sup>Green</sup>	A commercial introduction suitable for carton, fresh market and heart production. Shiny dark green. Broad seasonal adaptability.

LETTUCE	M=1,000 seeds		
Price per 1,000 seeds (M)	5M	100M	500M
<b>Butterhead</b>			
30309P <b>Alkindus</b> <sup>Primed/Pelleted</sup>	6.60	6.25	6.00
30504P <b>Barilla</b> <sup>Pelleted</sup>	4.20	3.85	3.60
<b>Iceberg</b>			
30705P <b>Meridian</b> <sup>Pelleted</sup>	3.35	3.00	2.75
30704P <b>Somerset</b> <sup>Pelleted</sup>	3.15	2.80	2.55
<b>Leaf</b>			
30304P <b>Bergam's Green</b> <sup>Primed/Pelleted</sup>	2.70	2.35	2.10
30016P <b>New Red Fire</b> <sup>Pelleted</sup>	2.55	2.20	1.95
30016 <b>New Red Fire</b>	1.45	1.10	0.85
30013P <b>Red Mist</b> <sup>Pelleted</sup>	2.95	2.60	2.35

LETTUCE	M=1,000 seeds		
Price per 1,000 seeds (M)	5M	100M	500M
<b>Romaine</b>			
30214P <b>Breen</b> <sup>Pelleted</sup>	6.05	5.70	5.45
30514P <b>Margarita</b> <sup>Pelleted</sup>	2.20		
30215P <b>Teton</b> <sup>Primed/Pelleted</sup>	2.95	2.60	2.35
<b>Romaine Heart</b>			
30203P <b>Arroyo</b> <sup>Pelleted</sup>	3.20	2.85	2.60

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

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

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

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

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## LETTUCE BUTTERHEAD

		Priced per package		Priced per pound in these package sizes	
		1 oz.	4 oz.	1#	5#
30501U	<b>Bibb</b> Untreated		8.40	20.60	20.10
30502U	<b>Buttercrunch</b> Untreated		8.40	20.60	20.10
30510U	<b>Merville de 4 Seasons</b> Untreated		8.35	20.45	19.95
30034U	<b>Speckles</b> Untreated	7.15	22.75	63.50	63.00
30503U	<b>Tom Thumb</b> Untreated		11.20	27.45	26.95

## LETTUCE CRISPHEAD

		Priced per package		Priced per pound in these package sizes	
		1 oz.	4 oz.	1#	5#
30702U	<b>Great Lakes Mesa 659</b> Untreated	4.40	12.35	35.75	35.25
30701U	<b>Iceberg</b> Untreated		7.40	21.40	20.90

## LETTUCE LEAF

		Priced per package		Priced per pound in these package sizes	
		1 oz.	4 oz.	1#	5#
30004U	<b>Black Seeded Simpson</b> Untreated		8.05	19.80	19.30
30001U	<b>Chef's Delight Blend</b> Untreated	8.20	21.65	60.50	60.00
30005U	<b>Grand Rapids</b> Untreated		7.95	19.55	19.05
30036U	<b>Green Deer Tongue</b> Untreated	6.20	16.30	45.50	45.00
30003U	<b>Green Ice</b> Untreated	5.75	15.20	42.50	42.00
30025U	<b>Lollo Rossa</b> Untreated	6.20	16.30	45.50	45.00
30006U	<b>Oak Leaf</b> Untreated		9.05	22.30	21.80
30007U	<b>Prizehead</b> Untreated		9.05	22.30	21.80
30027U	<b>Red Deer Tongue</b> Untreated	6.20	16.30	45.50	45.00
30002U	<b>Red Sails</b> Untreated	8.20	21.65	60.50	60.00
30023U	<b>Red Salad Bowl</b> Untreated		11.00	27.05	26.55
30008U	<b>Salad Bowl</b> Untreated		10.10	24.90	24.40
30014U	<b>Waldmanns Green</b> Untreated		8.35	20.60	20.10

## LETTUCE ROMAINE

		Priced per package		Priced per pound in these package sizes	
		1 oz.	4 oz.	1#	5#
30202U	<b>Cimmaron Red Cos</b> Untreated	4.85	7.65	20.40	19.90
30515U	<b>Freckles</b> Untreated	19.15	30.20	80.45	79.95
30201U	<b>Paris Island Cos</b> Untreated	5.00	7.85	20.85	20.35

### POST HARVEST FINANCING AVAILABLE

We offer a variety of financing options including 0% interest with no payments due until December 2024.

**The best rates are available before 12/31/2023.**

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



**JOHN DEERE  
FINANCIAL**

0%



### 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%

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AVATAR  pg. 73

# MELONS

## PLANTING

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

See "Germination Chart" on page 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](http://www.ruppseeds.com/MVPG)

## HARVEST

Harvest 30 - 35 days after pollination. If shipping, pick at half slip. When picking for fresh market, pick at  $\frac{3}{4}$  to full slip. Wash fruit in peroxyacetic acid (peroxide and acetic acid), as a non-chlorine sanitizing option.

## STORAGE

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

## DISEASE CODES

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



ACCOLADE



AFTERGLOW ★



AMBROSIA



APHRODITE ★



ASTOUND



ATHENA ★



ATLANTIS



AVATAR ★



CLEOPATRA ★



GODDESS



ORANGE SHERBET



SOLSTICE

MELONS		CANTALOUPE Hybrid						Pricing on page 75
▲		Days	Fruit Size pounds	Net / Sutures	Flesh Color	Disease	Harvest Indicator	Features
	31015 <b>Accolade</b> 🍷	73	6	Medium Net / Light Sutures	Orange	F <sup>0,1,2</sup> , PM	Full Slip	Improved internal fruit quality for extended shelf life. Enhanced vine strength. Tight seed cavity with firm flesh.
★	31017 <b>Afterglow</b>	78	5 - 7	Medium Net / Deep Green Sutures	Orange	F <sup>0,1,2</sup> , PM <sup>1,2</sup>	Full Slip	Late sutured melon with high Brix and firm flesh for extended holdability.
	31001 <b>Ambrosia</b> 🍷	86	4	Heavy Net / No Sutures	Salmon	PM	Full Slip	Very sweet home garden variety.
★	31071 <b>Aphrodite</b> 🍷	75	6 - 8	Coarse Net / Light Sutures	Salmon	F <sup>0,1,2</sup> , PM <sup>1,2</sup>	Full Slip	Today's standard for Eastern shipping melons. Larger and better holding ability than the former standard, Athena.
	31016 <b>Astound</b> 🍷	75	6	Medium Net / Light Sutures	Orange	F <sup>0,1,2</sup> , PM	Full Slip	Another new Syngenta release with improved flesh firmness. Very similar to Accolade while maturing approximately 2 days later.
★	31050 <b>Athena</b> 🍷	80	5 - 7	Medium Net / Light Sutures	Salmon	F <sup>0,1,2</sup> , PM <sup>1,2</sup>	Full Slip	Athena delivers the sweet flavor and texture consumers demand. Athena melons stay firm even when harvested at full slip.
	31077 <b>Atlantis</b> 🍷	75	6 - 8	Refined Net / Light Sutures	Deep Orange	F <sup>0,1,2</sup> , PM <sup>1,2</sup>	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 <b>Avatar</b> 🍷	75	7 - 9	Full Net	Orange	F <sup>0,1,2</sup> , PM <sup>1,2</sup>	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 <b>Cleopatra</b>	70	4 - 6	Medium Net / Light Sutures	Orange	F <sup>0,1,2</sup> , PM <sup>1,2</sup>	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 <b>Goddess</b>	68	5 - 6	Medium Net / Light Sutures	Orange	F <sup>0,1,2</sup> , PM <sup>1,2</sup>	Full Slip	An extremely early Athena type with good disease tolerance and good holding ability.
	31076 <b>Orange Sherbet</b>	80	7	Heavy Net / Deep Green Sutures	Bright Orange	F <sup>1,2</sup> , PM <sup>2</sup>	Full Slip	A gourmet, Eastern cantaloupe with outstanding eating quality and high Brix that will ship.
	31085 <b>Solstice</b>	78	7 - 12	Heavy Net / Deep Sutures	Orange	F <sup>0,1,2</sup> , PM <sup>1,2</sup>	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 <b>Sugar Rush</b>	75	4	Medium Net / No Sutures	Orange	F <sup>0,1,2</sup> , PM <sup>1,2</sup>	Full Slip	Quality meets size. This is the big brother to Sugar Cube. Productive 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.



SUGAR RUSH



ARANGINA



DAMARIS




SHOCKWAVE




THUNDERSTRUCK



TIRRENO

MELONS		CANTALOUPE Hybrid Extended/Long Shelf Life					Pricing on page 75	
▲		Days	Fruit Size pounds	Net / Sutures	Flesh Color	Disease	Harvest Indicator	Features
31022	<b>Arangina</b>	75	3 - 6	Course Net / Deep Green Sutures	Dark Orange	F <sup>0,1,2</sup> , PM <sup>1,2,3,5,5</sup>	Clip	<i>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.</i>
31020	<b>Damaris</b> 	78 - 80	5 - 6	Medium Net / No Sutures	Orange	F <sup>0,1,2</sup> , PM <sup>2,3,5</sup>	Half Slip	<i>Damaris is an oval-shaped, extended shelf life melon with a solid disease package. Features a tight cavity with firm flesh.</i>
31009	<b>Shockwave</b>	85	4 - 6	Medium Net / No Sutures	Deep Orange	F <sup>0,1,2</sup> , PM <sup>1,2</sup>	Half Slip	<i>Outstanding eating quality with an average Brix of 15%. Has firm flesh with a very small seed cavity. This melon has an extended hold ability for a controlled pick. Slips when mature.</i>
31021	<b>Thunderstruck</b>	80	5 - 7	Medium Net / No Sutures	Deep Orange	F <sup>0,1,2</sup> , PM <sup>1,2</sup>	Half Slip	<i>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.</i>
31083	<b>Tirreno</b>	83	4 - 6	Medium Net / Deep Green Sutures	Orange	F <sup>1,2,5</sup> , PM <sup>1,2,3</sup>	Half Slip	<i>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.</i>

MELONS		MIXED/SPECIALTY Hybrid					
▲		Days	Fruit Size pounds	Net / Sutures	Flesh Color	Disease	Features
31704	<b>Ambassador</b>	76	6 - 8	Heavy Net / Slight Sutures	Ivory / Green	F <sup>0,1,2</sup> , PM <sup>1,2</sup>	<i>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.</i>
31011	<b>Earli-Dew</b> 	85	3 - 4	No Net / No Sutures	Lime Green	F	<i>Early Honeydew type. Slips when mature.</i>
31717	<b>Gourmet</b>	70	3 - 4	Distinctive Netting	Creamy White		<i>A high sugar (15 Brix) melon from Hollar. Great flavor, texture and yield make this one an excellent choice for roadside marketers.</i>
31721	<b>Lilly</b>	85	6 - 8	Lightly Corrugated / Smooth	Light Orange	PM <sup>1,2</sup>	<i>Very early Crenshaw hybrid with outstanding taste, high Brix (to 17%) and good yields.</i>
31709	<b>Passport</b>	75	6	Light Net / Slight Sutures	Green		<i>An early, large, Galia type melon with delightful flavor for market or home garden. Superb flavor and earliness sets this one apart.</i>
31722	<b>Sensation</b>	85	6-8	Distinctive Netting/ No Sutures	Green and White	F <sup>0,1,2</sup> , PM	<i>One of a kind fruit that will amaze you with its taste, texture, sweetness and aroma. These factors, along with high yield, make it the perfect roadside fruit stand item.</i>
31733	<b>Sigal</b>	60	6	Corky Net	Ivory / Green	PM <sup>1,2</sup>	<i>An early, large Galia type melon with superb flavor.</i>
31705	<b>Super Nectar</b>	90	5-6	No Net / No Sutures	Lime Green	F, PM	<i>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.</i>
31732	<b>Tweety</b>	70	4 - 6	Wrinkled Skin	Ivory / Green	A, F <sup>1,2</sup> , GSB	<i>A sweet Canary melon with a small seed cavity and firm flesh. Very early for a Canary.</i>



AMBASSADOR



PASSPORT



SENSATION



SIGAL



SUPER NECTAR



TWEETY

## GROWER PREFERRED ALL-STARS ★ MELONS

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

### CANTALOUPE

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

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

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

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

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

### PERSONAL SIZED

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

**Brad Paulson**  
Vegetable Consultant



### MELONS CANTALOUPE Hybrid

M=1,000 seeds

Priced per package	Seeds		M=1,000 seeds			
	100	500	1M	5M	15M*	90M*
Price per 1,000 seeds (M)						
31015 <b>Accolade</b> <sup>F300</sup>	18.70	73.55	105.05	101.95	99.95	98.95
31017 <b>Afterglow</b>	13.00	51.10	72.95	69.85	67.85	66.85
31001 <b>Ambrosia</b> <sup>F300</sup>	14.65	57.50	82.10	79.00	77.00	76.00
31071 <b>Aphrodite</b> <sup>F300</sup>	17.20	67.65	96.60	93.50	91.50	90.50
31022 <b>Arangina</b>	12.85	50.50	72.10	69.00	67.00	66.00
31016 <b>Astound</b> <sup>F300</sup>	18.65	73.40	104.85	101.75	99.75	98.75
31050 <b>Athena</b> <sup>F300</sup>	17.40	68.45	97.75	94.65	92.65	91.65
31077 <b>Atlantis</b> <sup>F300</sup>	10.40	40.75	58.20	55.10	53.10	52.10
31084 <b>Avatar</b> <sup>F300</sup>	12.60	49.45	70.60	67.50	65.50	64.50
31014 <b>Cleopatra</b>	13.00	51.05	72.90	69.80	67.80	66.80
31020 <b>Damaris</b> <sup>F300</sup>	17.70	69.60	99.40	96.30	94.30	93.30
31075 <b>Goddess</b>	14.35	56.30	80.40	77.30	75.30	74.30
31076 <b>Orange Sherbet</b>	10.60	41.55	59.30	56.20	54.20	53.20
31009 <b>Shockwave</b>	15.50	60.90	86.95	83.85	81.85	80.85
31085 <b>Solstice</b>	13.10	51.40	73.40	70.30	68.30	67.30
31018 <b>Sugar Rush</b>	14.70	57.80	82.55	79.45	77.45	76.45
31021 <b>Thunderstruck</b>	14.70	57.80	82.55	79.45	77.45	76.45
31083 <b>Tirreno</b>	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 Hybrid

M=1,000 seeds

Priced per package	Seeds		M=1,000 seeds		
	100	500	1M	5M	15M*
Price per 1,000 seeds (M)					
31704 <b>Ambassador</b>	12.95	51.25	73.15	70.05	68.05
31011 <b>Earli-Dew</b> <sup>F300</sup>	13.80	54.70	78.10	75.00	73.00
31717 <b>Gourmet</b>	15.05	59.65	85.20	82.10	80.10
31721 <b>Lilly</b>	13.65	54.05	77.20	74.10	72.10
31709 <b>Passport</b>	10.50	41.55	59.35	56.25	54.25
31722 <b>Sensation</b>	13.50	53.55	76.50	73.40	71.40
31733 <b>Sigal</b>	10.00	39.55	56.45	53.35	51.35
31705 <b>Super Nectar</b>	8.80	34.90	49.80	46.70	44.70
31732 <b>Tweety</b>	12.80	50.75	72.50	69.40	67.40

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



SUGAR CUBE ★



TASTY BITES



MELONS		PERSONAL SIZE Hybrid					
▲		Days	Fruit Size pounds	Net / Sutures	Flesh Color	Disease	Features
★	31078 <b>Sugar Cube</b>	80	2	Medium Net / Light Sutures	Deep Orange	F <sup>0,1,2</sup> , PM <sup>1,2</sup> , PRSV, WMV, ZYMV	<i>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".</i>
	31727 <b>Tasty Bites</b>	75 - 80	1	Light Net / Light Suture	Orange	A, F <sup>1,2,3</sup> , PM	<i>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.</i>

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

MELONS PERSONAL SIZE Hybrid		M=1,000 seeds				
		100 Seeds	500 Seeds	1M	5M	15M*
	<i>Priced per package</i>					
	<i>Price per 1,000 seeds (M)</i>					
	31078 <b>Sugar Cube</b>	14.40	57.10	81.55	78.45	76.45
	31727 <b>Tasty Bites</b>	14.00	55.45	79.20	76.10	74.10

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

MELONS OP		Priced per package			
		1 oz.	4 oz.		
		Priced per pound in these package sizes		1#	5#
<i>Cantaloupe</i>					
	31503 <b>Hales Best Jumbo</b>	5.75	10.65	28.35	27.35
	31506U <b>Honey Rock</b> <small>Untreated</small>	5.85	10.80	28.70	27.70
	31508U <b>Iroquois</b> <small>Untreated</small>	5.00	9.25	24.60	23.60
<i>Mixed / Specialty</i>					
	31511U <b>Honey Dew Green Flesh</b> <small>Untreated</small>	5.55	10.25	27.25	26.25



JAMBALAYA 2.0

**POST HARVEST FINANCING AVAILABLE**  
 We offer a variety of financing options including 0% interest with no payments due until December 2024.  
**The best rates are available before 12/31/2023.**  
 See page 155 for all of the details on how to take advantage of this payment option.

0%



**JOHN DEERE FINANCIAL**

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

OKRA			
	Days	Features	
33005 <b>Burgundy</b>	60	<i>AAS winner. Deep burgundy plants with yellow flowers provide ornamental value with tender pods.</i>	
33002 <b>Clemson Spineless</b>	55	<i>3 - 4' tall plants with 6 - 7" straight, slim, tapered pods on a spineless plant.</i>	
33003 <b>Dwarf Long Green Pod</b>	55	<i>2 - 3' tall plant with dark green, tender pods.</i>	
33009 <b>Jambalaya 2.0</b> <sup>F1</sup>	50	<i>Compact plant with small leaves. High yields with uniform fruit. Very early.</i>	

MUSTARD					
	Priced per package	4 oz.			
	Priced per pound	1#	5#	50#	
	in these package sizes				
32004U <b>Florida Broadleaf</b> <sup>Untreated</sup>	7.60	13.50	13.00	12.50	
32001U <b>Green Wave</b> <sup>Untreated</sup>	9.35	16.55	16.05	15.55	
32005 <b>Savannah</b>	66.40	118.00	117.00	116.00	
32003U <b>Southern Giant Curled</b> <sup>Untreated</sup>	7.60	13.50	13.00	12.50	

OKRA					
	Priced per package	1 oz.	4 oz.		
	Priced per pound	1#	5#		
	in these package sizes				
33005U <b>Burgundy</b> <sup>Untreated</sup>	7.90	12.15	11.90		
33002U <b>Clemson Spineless</b> <sup>Untreated</sup>	6.35	9.70	9.45		
33003U <b>Dwarf Long Green Pod</b> <sup>Untreated</sup>	6.35	9.70	9.45		
33009 <b>Jambalaya 2.0</b>	19.00	56.20	177.00	176.00	



CANDY pg. 79

# ONIONS

## PLANTING

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

Bunching Onions - Direct seed in spring when the soil reaches 50°F. Plant seed ¼" deep and approximately ½" apart.

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

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

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

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

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

## MANAGEMENT

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

## HARVEST

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

## STORAGE

Cure onions at 65 - 85°F at 70% humidity. Curing decreases the incidence of neck rot, reduces water loss during storage, prevents microbial infection, and is desirable for development of good scale color. Curing can be done in the field, preferably when the weather is warm and dry. If it rains let them dry fully before handling. A greenhouse or hoop house also provides good conditions for curing. Temperatures in the 80's will enhance the bronze color in the skins. Sunshine is good as long as it is not too hot. Extreme sun can produce sunscald. Store onions out of the sun; exposure to light after curing will induce greening of outer scales. Optimum temperature for long term storage of onions is 32°F with 65 - 70% humidity. It is important to cool them down slowly. Using cool late summer and fall temperatures works great to cool onions down slowly.





CANDY



GREAT WESTERN



GREAT WHITE



RED CANYON



SPANISH MEDALLION

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RED DEFENDER



SV4643NT



EVERGREEN WHITE BUNCHING



ISHIKURA IMPROVED BUNCHING



RED BUNCHING

**ONIONS** Pricing on page 80

	Maturity	Color	Bulb Shape	Storage	Features
<b>Bulb Onions / Intermediate Day</b>					
34020 <b>Candy</b> <sup>F1</sup>	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.  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.
34004 <b>Great Western</b> <sup>F1</sup>	110	Yellow	Globe	Short	A White Spanish Class onion. Great yield potential for its maturity. Has attractive, luminescent white package with a high rate of single centers.
34021 <b>Great White</b> <sup>F1</sup>	103	White	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.
34016 <b>Red Canyon</b> <sup>F1</sup>	100	Red	Globe	Medium	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.
34039 <b>Spanish Medallion</b> <sup>F1</sup>	115	Yellow	Globe	Short	
<b>Bulb Onions / Long Day</b>					
34045 <b>Red Defender</b> <sup>F1</sup>	125	Red	Globe	Long	Very dark red interior and exterior with uniform bulbs. Good for transplanting.
34000 <b>SV4643NT</b> <sup>F1</sup>	112	Red	Flattened Globe	Long	Bold red colored variety with excellent yield potential. Has both superb interior and exterior color. Stores very well.
34501 <b>White Sweet Spanish</b>	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 <b>Yellow Sweet Spanish</b>	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.
<b>Bunching Onions</b>					
34503 <b>Evergreen White Bunching</b>	120	White			Very long, white stems of delicate flavor. Hardy, winters well for early spring bunching.
34510 <b>Ishikura Improved Bunching</b>	120	White			A Tokyo Long type with fancy, lengthy, white stalks. A good shipper.
34036 <b>Red Bunching</b> <sup>F1</sup> DPS 3047	55	Red			A red skinned, white fleshed bunching onion with an attractive deep color. This onion makes a striking presentation in the market.



BROOM CORN  
SORGHUM BLEND



RED DEER



**SAVE WITH CASH DISCOUNTS**

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%

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

ORNAMENTAL		SORGHUM / BROOMCORN	
	Days	Features	
05538 <b>Broom Corn Sorghum Blend</b>	100-110	<i>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.</i>	
05506 <b>Red Deer</b>	120	<i>The original corn used for making brooms.</i>	


ONIONS	Descriptions on page 79. M=1,000 seeds			
	Price per 1,000 seeds (M)	5M	25M	100M
34020 <b>Candy</b> <sup>F300</sup>	5.05	4.20	3.10	
34020P <b>Candy</b> <sup>F300 Pelleted</sup>	5.70	4.75	3.50	
34004 <b>Great Western</b>	6.20	5.15	3.80	
34021P <b>Great White</b> <sup>F300 Pelleted</sup>	8.55	7.10	5.25	
34036 <b>Red Bunching</b> <sup>DPS 3047</sup>	7.60	6.30	4.65	
34016P <b>Red Canyon</b> <sup>F300 Pelleted</sup>	8.55	7.10	5.25	
34045 <b>Red Defender</b>	5.20	4.30	3.15	
34039P <b>Spanish Medallion</b> <sup>Pelleted</sup>	6.90	5.75	4.25	
34000 <b>SV4643NT</b> <sup>F300</sup>	6.60	5.50	4.05	
	<i>Priced per package</i>	<b>1 oz.</b>	<b>4 oz.</b>	<b>1#</b>
34503 <b>Evergreen White Bunching</b>	6.85	18.10	45.25	
34510 <b>Ishikura Improved Bunching</b>	6.25	16.50	41.25	
34501 <b>White Sweet Spanish</b>	7.55	20.00	50.00	
34502 <b>Yellow Sweet Spanish</b>	7.55	20.00	50.00	

ORNAMENTAL SORGHUM / BROOMCORN				
	Priced per package	4 oz.		
	Priced per pound in these package sizes	1#	5#	
05538U <b>Broom Corn Sorghum Blend</b> <sup>Untreated</sup>	16.95	48.70	45.90	
05506U <b>Red Deer</b> <sup>Untreated</sup>	15.30	44.00	41.50	

**FarMore® F300**  
Onion

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](http://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.



A  
B  
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## PARSLEY

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

## PARSNIPS

	Days	Features
36001 <b>Harris Model</b>	110	Smooth 12" by 3" roots with a minimum of side roots. White, tender interior and a fair sized core.
36002 <b>Hollow Crown</b>	105	Smooth 12" by 2 3/4" roots that are well tapered and of high quality.
36005 <b>Javelin</b> <sup>F1</sup>	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.
<b>NEW</b> 36007 <b>Sabre</b> <sup>F1</sup>	150	A main season, high yielding parsnip with a smooth white skin. Good resistance to canker. It has an improved slender shape and holds its weight nicely down the root. Also, works well for storage and can hold its white color.

## PARSLEY

	Priced per package		Priced per pound in these package sizes		
	1 oz.	4 oz.	1#	5#	25#
35005U <b>Forest Green</b> <sup>Untreated</sup>	5.15	7.15	20.35		
35012 <b>Gigante d'Italia</b>	5.25	7.30	20.75	19.75	18.75
35010U <b>Hamburg Rooted</b> <sup>Untreated</sup>	5.60	7.75	22.05		
35002 <b>Italian Dark Green</b>	4.80	6.65	18.95		
35004U <b>Moss Curled</b> <sup>Untreated</sup>	5.15	7.15	20.35		

## PARSNIPS

	Priced per package		Priced per pound in these package sizes		
	4 oz.	1#	5#	25#	50#
36001U <b>Harris Model</b> <sup>Untreated</sup>	5.20	14.75	14.50		
36002U <b>Hollow Crown</b> <sup>Untreated</sup>	5.20	14.75	14.50		
Price per 1,000 seeds (M)					
36005P <b>Javelin</b> <sup>Primed, Pelleted</sup>	5.20	4.65	4.40	4.05	
36007P <b>Sabre</b> <sup>Primed, Pelleted</sup>	5.60	5.05	4.80	4.45	

## PEAS SOUTHERN

	Priced per pound in these package sizes			
	1#	5#	25#*	50#*
12514U <b>Mississippi Purple Brown Crowder</b> <sup>Untreated</sup>	10.60	7.00	6.75	6.50
12510U <b>Mississippi Silver Brown Crowder</b> <sup>Untreated</sup>	10.00	6.60	6.35	6.10
12515U <b>Top Pick Brown Crowder</b> <sup>Untreated</sup>	10.90	7.20	6.95	6.70
12513U <b>Top Pick Pinkey</b> <sup>Untreated</sup>	10.60	7.00	6.75	6.50

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

## PEAS

	Priced per pound in these package sizes				
	1#	5#	25#	50#*	500#*
12021 <b>Bolero</b>	6.90	4.55	4.30	4.05	3.95
12009 <b>Early Frosty</b>	7.75	5.10	4.85	4.60	4.50
12012 <b>Green Arrow</b>	7.65	5.05	4.80	4.55	4.45
12004 <b>Laxton's Progress #9</b>	7.65	5.05	4.80	4.55	4.45
12033 <b>Legacy</b>	6.90	4.55	4.30	4.05	3.95
12011 <b>Lincoln</b>	7.75	5.10	4.85	4.60	4.50
12007 <b>Little Marvel</b>	8.25	5.45	5.20	4.95	4.85
12003 <b>Maestro</b>	8.10	5.35	5.10	4.85	4.75
12005 <b>PLS 566</b>	6.90	4.55	4.30	4.05	3.95
12008 <b>PLS 595</b>	6.90	4.55	4.30	4.05	3.95
12035 <b>Sabre</b>	6.90	4.55	4.30	4.05	3.95
12519 <b>Short Story</b> <sup>PLS534</sup>	6.90	4.55	4.30	4.05	3.95
12019 <b>Spring</b>	6.90	4.55	4.30	4.05	3.95

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

## PEAS SNOW PEA

	Priced per pound in these package sizes				
	1#	5#	25#	50#*	500#*
12104 <b>Mammoth Melting Sugar</b>	7.75	5.10	4.85	4.60	4.50
12105 <b>Oregon Giant</b>	7.80	5.15	4.90	4.65	4.55
12102 <b>Oregon Sugar Pod II</b>	8.05	5.30	5.05	4.80	4.70

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

## PEAS SUGAR SNAP

	Priced per pound in these package sizes				
	1#	5#	25#	50#*	500#*
12206 <b>Cascadia</b>	7.75	5.10	4.85	4.60	4.50
12201 <b>Sugar Ann</b>	7.20	4.75	4.50	4.25	4.15
12202 <b>Sugar Snap</b>	7.65	5.05	4.80	4.55	4.45
Price per 1,000 seeds (M)					
12209 <b>Sugar Sprint</b>	3.80	2.80	2.55	2.35	2.10
12207 <b>Super Sugar Snap</b>	3.95	2.95	2.70	2.50	2.25

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



PLS 595  pg. 83

# PEAS

## PLANTING

Direct seed 1½" - 2" deep in soils that are at least 40° F. Plant in rows that are 30" - 36" apart and 1" - 2" between the plants.

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

## MANAGEMENT

Scout field for insect, weed, and disease pressure.

## HARVEST




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

## STORAGE

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

## DISEASE CODES

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

PEAS							Pricing on page 81
▲		Days	Height	Pod Length	Peas per Pod	Disease	Features
<i>Fresh Market</i>							
12021	<b>Bolero</b> <sup>PVP</sup>	68	29"	3"	7-9		High yielding, sweet, medium sized. Excellent for freezer.
12033	<b>Legacy</b>	67	26"	3 ½"	7-9	F, PM	A Bolero replacement, one day earlier with resistance to powdery mildew.
12003	<b>Maestro</b>	61	18"	4"	9	MV, PM, W, YM	Heavy crops, very disease resistant.
	12005 <b>PLS 566</b>	64	22-24"	3.7"	10-12	F, PM	Long, light green pods stand out against the dark green afila vine. Two pods per node and high yields. Shows tolerance to downy mildew. Great companion to PLS595.
	12008 <b>PLS 595</b>	67	30"	3.6"	9-10	F, PM	Fresh market or processor. High yields. Great taste.
12035	<b>Sabre</b>	65	24"	3 ½"	9-10	F, RR, PM	Sabre is a normal vine type with long pods. The dark green berries produce wonderful yields - frozen, canned or fresh.
	12519 <b>Short Story</b> <sup>PLS 534</sup>	58	20-22"	3.8"	9-10	F 1 & 2, RR	Second early afila with double pods. Creates fantastic yields. Great companion to PLS595.
12019	<b>Spring</b> <sup>PVP</sup>	55	22"	3"	6-7		Very early, excellent quality, dark green freezer pea.
<i>Heritage Varieties</i>							
12009	<b>Early Frosty</b>	63	28"	3 ½"	6	W	High yielding and high quality.
12012	<b>Green Arrow</b>	68	28"	4"	9-11	F, PM	Deep green peas, high pod set, disease resistant.
12004	<b>Laxton's Progress #9</b>	62	15"	4 ½"	7		Leading home garden variety. Fine flavor and quality.
12011	<b>Lincoln</b>	67	28"	3 ½"	7-8	W	Older type home garden variety.
12007	<b>Little Marvel</b>	63	18"	3 ½"	7-8	W	Fine quality, dwarf plant, dependable variety.

PEAS		SNOW PEA Flat Oriental		Pricing on page 81
▲		Days	Features	
12104	<b>Mammoth Melting Sugar</b>	74	54" tall vine, good for a trellis with 5" pods.	
12105	<b>Oregon Giant</b>	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	<b>Oregon Sugar Pod II</b>	68	30" vine with 4" pods, disease resistant.	

PEAS		SUGAR SNAP		Pricing on page 81
▲		Days	Features	
12206	<b>Cascadia</b>	67	Unusually thick pod walls on a 30" vine. Pods remain tender and sweeter longer than other cultivars. Flavor improves until seeds are over mature. Has outstanding disease tolerance, eating quality and yielding ability.	
12201	<b>Sugar Ann</b>	52-60	Earliest and shortest snap pea. 18" vine. Can be grown without support and can be shelled.	
12202	<b>Sugar Snap</b>	70	Original snap pea, AAS winner. Can be shelled. 6' tall vine.	
12209	<b>Sugar Sprint</b>	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	<b>Super Sugar Snap</b>	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		SOUTHERN		Pricing on page 81
▲		Days	Features	
<i>Fresh Market</i>				
12514	<b>Mississippi Purple Brown Crowder</b>	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	<b>Mississippi Silver Brown Crowder</b>	65	A large-seeded Brown Crowder with pale green, silvery pods at the green shell stage. Low bushy plant, few runners. Pods are 6-6 ½", slightly curved.	
12515	<b>Top Pick Brown Crowder</b>	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	<b>Top Pick Pinkeye</b>	70	A Pinkeye that is superior to all Pinkeyes with an upright growth characteristic.	



TURNPIKE ★ pg. 86

# 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](http://www.ruppseeds.com/MVPG) or your local extension agent for identification and treatments.

## HARVEST

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

## STORAGE

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

## DISEASE CODES

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

## USE RECOMMENDATIONS

FM - Fresh Market  
P - Processing  
PP - Place Pack



ARISTOTLE X3R<sup>®</sup> ★



KING ARTHUR



MERCER



NINJA S10<sup>®</sup> X10R



NITRO<sup>®</sup> X10R



PALADIN



PLAYMAKER<sup>®</sup> X10R<sup>®</sup>



PS9928302<sup>®</sup> X5R<sup>®</sup>



PS09941819<sup>®</sup> X5R<sup>®</sup> ★



PS09979325<sup>®</sup> X5R<sup>®</sup>



RED KNIGHT<sup>®</sup> X3R<sup>®</sup>

ORDERS OVER \$350 ARE SHIPPED FREE!

PEPPERS **BELL GREEN TO RED Hybrid** Pricing on page 86

	Days	Flesh	Disease	Use	Features
★ 37125 <b>Aristotle</b> X3R <sup>®</sup>	72	Thick	BLS <sup>1,2,3</sup> , PVY, TMV	FM	A Seminis hybrid with heavy set, thick walls, excellent disease protection and enormous fruit size. 3 - 4 lobed. The industry standard.
37006 <b>Big Bertha</b>	70	Thick	TMV	FM	Very large. Popular for home garden use.
37050 <b>King Arthur</b>	68	Thick	BLS <sup>2</sup> , 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 <b>Mercer</b>	72	Thick	BLS <sup>0,3,7,8</sup> , 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 <b>Ninja S10</b> X10R <sup>®</sup>	75	Medium Thick	TMV, BLS <sup>0-10</sup>	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 <b>Nitro S10</b> X10R <sup>®</sup>	75	Thick	BLS <sup>0-10</sup> , PHY, TSW,	FM, PP	Nitro S10 <sup>®</sup> 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 <b>Paladin</b>	72	Thick	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 <b>Playmaker</b> X10R <sup>®</sup>	75	Thick	BLS <sup>0-10</sup> , PHY	FM, PP	First commercial variety with intermediate resistance to BLS 0-10 and phytophthora blight. Bred and developed for the Northeast. Dark green, anthocyaninless fruits. High yield potential.
37156 <b>PS 9928302</b> X5R <sup>®</sup>	75	Thick	BLS <sup>1,2,3,4,5</sup> , TMV <sup>1,2,3</sup>	FM	A large robust plant, anthocyaninless, very large fruit, and dark green color.
★ 37161 <b>PS 09941819</b> X5R <sup>®</sup>	75	Thick	BLS <sup>1,2,3,4,5</sup> , 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 <b>PS 09979325</b> X10R <sup>®</sup>	72	Thick	BLS <sup>1-10</sup> , TMV	FM, PP	Early concentrated fruit set. Very dark green fruit. Prolific setting ability. High marks in recent trials.
37119 <b>Red Knight</b> X3R <sup>®</sup>	63	Thick	BLS <sup>1,2,3</sup> , PVY	P	A Seminis medium to large blocky hybrid. Early to red, like North Star, with resistance to BLS races 1, 2 and 3.
37118 <b>Red Wonder</b>	75	Thick	TMV	FM	Especially suited for the bedding plant growers for home garden sales.

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

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REDFISH X10R®



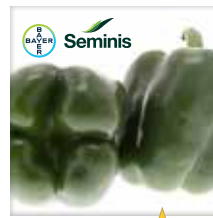
REGULATOR



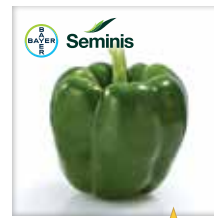
SAILFISH X10R®



SPRINTER



TARPON X10R® ★



TURNPIKE XSR® ★

PEPPERS		BELL GREEN TO RED Hybrid				
		Days	Flesh	Disease	Use	Features
37048	<b>Redfish</b> X10R®	76	Thick	BLS <sup>0-10</sup> , PHY	FM	A widely adapted pepper that is well suited for the early red markets. Redfish has a strong vigorous plant with large fruit. Redfish has BLS 0-10 with phytophthora control.
37047	<b>Regulator</b>	73-75	Thick	BLS <sup>1-10</sup> , TMV	FM, PP	Regulator is an attractive, widely adaptable variety. This variety produces a high percentage of four lobed fruit and will maintain size throughout the growing season. The growing area for Regulator is the Eastern US, both in main season spring and fall. Regulator features a strong plant with good cover and a great fruit uniformity.
37046	<b>Sailfish</b> X10R®	Early	Thick	BLS <sup>0-10</sup> , PHY, TMV	FM, P	An early red bell pepper for fresh market, with high-quality, blocky smooth fruit, and excellent red color.
37014	<b>Sprinter</b>	Early	Medium Thick	TMV <sup>0-3</sup>	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	<b>Tarpon</b> X10R®	Main	Thick	BLS <sup>0-10</sup> , 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	<b>Turnpike</b> XSR®	72	Thick	BLS <sup>1,2,3,4,5,7,9</sup> , PHY, TMV	FM	Extra large sized fruit with massively thick walls. Provides industry leading potential for yield.

PEPPERS BELL GREEN TO RED Hybrid		M=1,000 seeds				
Priced per package	100 Seeds	500 Seeds				
Price per 1,000 seeds (M)	1M	5M	25M	50M		
37125 <b>Aristotle</b> X3R® F300	16.95	74.90	106.95	99.00	94.25	90.60
37125P <b>Aristotle</b> X3R® F300 Pelleted	17.15	75.85	108.30	100.25	95.45	91.75
37035 <b>Autry</b>	20.10	88.90	127.00	117.55	111.95	107.60
37006 <b>Big Bertha</b>	10.95	48.35	69.05	63.90	60.85	58.50
37050 <b>King Arthur</b>	10.35	45.65	65.20	60.35	57.45	55.20
37065 <b>Mercer</b> F300	17.10	75.55	107.90	99.90	95.10	91.40
<b>Ninja S10</b> X10R® F300						
37060P Pelleted	17.40	76.80	109.65	101.50	96.65	92.90
37041 <b>Nitro S10</b> F300	18.35	81.15	115.90	107.30	102.15	98.20
37089 <b>Paladin</b>	14.10	62.20	88.85	82.25	78.30	75.25
37031 <b>Playmaker</b> X10R® F300	19.00	83.90	119.85	110.95	105.65	101.55
<b>PS 9928302</b> XSR®						
37156P F300 Pelleted	18.15	80.15	114.45	105.95	100.90	97.00
<b>PS 09941819</b>						
37161 XSR® F300	17.95	79.40	113.40	105.00	100.00	96.15
<b>PS 09941819</b> XSR®						
37161P F300 Pelleted	18.20	80.40	114.85	106.30	101.20	97.30

PEPPERS BELL GREEN TO RED Hybrid		M=1,000 seeds				
Priced per package	100 Seeds	500 Seeds				
Price per 1,000 seeds (M)	1M	5M	25M	50M		
<b>PS 09979325</b>						
37010 X10R® F300	18.55	82.05	117.20	108.50	103.30	99.30
<b>PS 09979325</b> X10R®						
37010P F300 Pelleted	18.60	82.15	117.35	108.65	103.45	99.45
37119 <b>Red Knight</b> X3R®	13.45	59.45	84.90	78.60	74.85	71.95
37118 <b>Red Wonder</b>	12.75	56.40	80.55	74.55	71.00	68.25
37118P <b>Red Wonder</b> Pelleted	13.75	60.75	86.75	80.30	76.45	73.50
37048 <b>Redfish</b>	17.45	77.00	110.00	101.85	97.00	93.25
37047 <b>Regulator</b> X10R®	18.65	82.35	117.60	108.85	103.65	99.65
37046 <b>Sailfish</b> X10R®	18.65	82.40	117.65	108.90	103.70	99.70
37014 <b>Sprinter</b>	60.20	266.20	380.25	352.05	335.25	322.35
37025 <b>SV3255PB</b> X10R® F300	19.90	88.00	125.70	116.35	110.80	106.50
37042 <b>Tarpon</b> X10R® F300	18.90	83.60	119.40	110.55	105.25	101.20
37042P <b>Tarpon</b> X10R® F300 Pelleted	19.15	84.55	120.75	111.80	106.45	102.35
37023 <b>Turnpike</b> XSR®	18.70	82.70	118.10	109.35	104.10	100.05

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

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ABAY



DICAPRIO



SVPB8415 X10R★



DELIRIO



TEQUILA



VALAHIA **NEW**

PEPPERS		BELL YELLOW Hybrid				
		Days	Flesh	Disease	Use	Features
37015	<b>Abay</b>	80	Medium Thick	BLS <sup>1-5</sup>	FM	Offers strong bacterial leaf spot resistance. Very strong plant with high yield potential. Outstanding coloration. Excellent firmness and fruit quality. Continuous setting.
37034	<b>Dicaprio</b>	80	Medium Thick	TMV <sup>0,3</sup> , TSW	FM	Good variety for high tunnels or unheated greenhouses from Enza Zaden.
37108	<b>Early Sunstation</b> <sup>X3R*</sup>	70	Thick	BLS <sup>1,2,3</sup> , 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	<b>SVPB8415</b> <sup>X10R*</sup>	73 Green / 83 Yellow	Thick	BLS <sup>1,2,3</sup> , PVY, TMV	FM	Offers fast color change from green to yellow. Very adaptable across many growing conditions in the eastern U.S.

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

PEPPERS BELL YELLOW Hybrid	M=1,000 seeds					
	Priced per package		Price per 1,000 seeds (M)			
	100 Seeds	500 Seeds	1M	5M	25M	50M
37015 <b>Abay</b>	17.95	79.25	113.20	104.80	99.80	95.95
37034 <b>Dicaprio</b>	83.75	370.45	529.15	489.95	466.60	448.65
37108 <b>Early Sunstation</b> <sup>X3R*</sup>	13.20	58.40	83.40	77.20	73.50	70.65
37045 <b>SVPB8415</b> <sup>X10R*</sup>	19.95	88.15	125.90	116.55	111.00	106.70

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

PEPPERS BELL OTHER COLORS Hybrid	M=1,000 seeds					
	Priced per package		Price per 1,000 seeds (M)			
	100 Seeds	500 Seeds	1M	5M	25M	50M
37090 <b>Delirio</b>	19.20	84.85	121.15	112.15	106.80	102.65
37013 <b>Milena</b>	60.05	265.50	379.25	351.15	334.40	321.50
37088 <b>Tequila</b>	22.20	98.20	140.25	129.85	123.65	118.85
37550 <b>Valahia</b>	10.30	45.50	64.95	60.10	57.20	55.00

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



CORNITO ARANCIA



CORNITO GIALLO



CORNITO ROSSO



ORANOS



SWEETIE ORANGE



SWEETIE RED

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

PEPPERS		MISCELLANEOUS SWEET Hybrid 🌱				
▲	Days	Flesh	Color	Shape	Disease	Features
<i>Super Sweet Cones</i>						
37199 <b>Cornito Arancia</b>	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 <b>Cornito Giallo</b>	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 <b>Cornito Rosso</b>	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 <b>Conical Blend</b>	80	Medium	Red, Orange, Yellow	1 ½ x 5"		A multi-colored blend of the three conical peppers, orange, red and yellow. Only available in 100 seed packs.
37174 <b>Oranos</b>	70	Medium	Orange	1 ½ x 7"	TMV <sup>0</sup>	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.
<i>Miniature Sweet Cones - Snack Peppers 🌱</i>						
37190 <b>Sweetie Orange</b>	70 from transplant	Thick	Orange	2 ½ - 3" long		These peppers are extremely sweet and the perfect size for snacking. Uniform fruit feature an open seed cavity. They grow great in both open field and protected culture.
37194 <b>Sweetie Purple</b>	70 from transplant	Thick	Purple	2 ½ - 3" long		
37191 <b>Sweetie Red</b>	70 from transplant	Thick	Red	2 ½ - 3" long		
37192 <b>Sweetie Yellow</b>	70 from transplant	Thick	Yellow	2 ½ - 3" long		
37193 <b>Sweetie Blend</b>	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 <b>Yellow Sparkler</b>	70	Medium	Yellow	1 x 3"	TMV <sup>0</sup>	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

POST HARVEST FINANCING AVAILABLE

We offer a variety of financing options including 0% interest with no payments due until December 2024.

The best rates are available before 12/31/2023.

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

0%



JOHN DEERE FINANCIAL

GROWER PREFERRED ALL-STARS ★ PEPPERS

GREEN TO RED BELLS

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

If you are concerned about Phytophthora pressure, consider using **Turnpike X5R<sup>®</sup>**. 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<sup>®</sup>** is the one for you if your customers are looking for a jumbo sized bell! It also has a very dark green color and X5R Bacterial Leaf Spot resistance.

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

OTHER COLORED BELLS

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

SWEET BANANAS

**SV3782PP X3R<sup>®</sup>** 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

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

HOT WAX BANANA

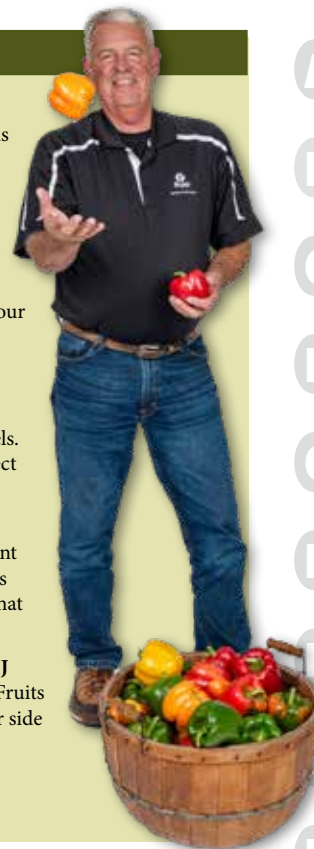
**Inferno** is the best all-around hot banana available. The yield is fantastic and the pungency is just what your customers expect.

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<sup>®</sup>**. It can be used for processing or fresh market. Fruits are long and cylindrical with pungency on the milder side at 1,000 Scovilles.



Dave Silveus  
Vegetable Consultant

PEPPERS BELL OP

	Priced per package	1/2 oz.	1 oz.	4 oz.	1#
37225 <b>Big Red</b>		12.65	18.40	58.40	169.25
37206 <b>California Wonder 300</b>		8.30	12.10	38.30	111.00
37228 <b>Keystone Resistant Giant #3</b>		8.30	12.10	38.30	111.00
37217 <b>Purple Beauty</b>		16.05	23.40	74.20	215.00
37226 <b>Sunbright</b>		16.05	23.40	74.20	215.00

PEPPERS MISCELLANEOUS SWEET Hybrid

M=1,000 seeds

	Priced per package	100 Seeds	500 Seeds				
	Price per 1,000 seeds (M)						
		1M	5M	25M	50M		
<i>Super Sweet Cones</i>							
37173 <b>Belcanto</b>	38.85	171.75	245.35	227.15	216.30	207.95	
37199 <b>Cornito Arancia</b>	20.55	90.90	129.80	120.15	114.40	110.00	
37195 <b>Cornito Giallo</b>	13.85	61.15	87.30	80.80	76.95	73.95	
37198 <b>Cornito Rosso</b>	13.85	61.15	87.30	80.80	76.95	73.95	
37179 <b>Conical Blend</b>	27.50						
37174 <b>Oranos</b>	39.60	175.10	250.10	231.55	220.50	212.00	
<i>Miniature Sweet Cones - Snack Peppers</i>							
37190 <b>Sweetie Orange</b>	29.35	129.80	185.40	171.65	163.45	157.15	
37194 <b>Sweetie Purple</b>	32.05	141.65	202.30	187.30	178.35	171.45	
37191 <b>Sweetie Red</b>	29.35	129.80	185.40	171.65	163.45	157.15	
37192 <b>Sweetie Yellow</b>	29.35	129.80	185.40	171.65	163.45	157.15	
<b>Sweetie Blend</b>							
37193 <small>Orange, Purple, Red, Yellow</small>	35.45						
37176 <b>Yellow Sparkler</b>	13.75	60.70	86.65	80.20	76.35	73.40	
<i>Miniature Bell</i>							
37105 <b>Baby Block Yellow</b>	18.60	82.20	117.40	108.70	103.50	99.50	

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



GODIVA **NEW**



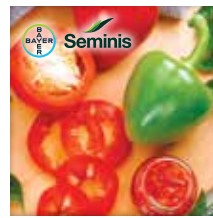
LOLA



SV3782PP X3R<sup>®</sup> ★



GYPSY



PIMIENTO ELITE

**PEPPERS**

**MISCELLANEOUS** Hybrid

	Days	Flesh	Color	Disease	Features
<b>Banana</b>					
<b>NEW</b> 37802 <b>Godiva</b>	70	Thick	Yellow	TSW	Medium vigorous plant with uniform fruits. Fresh and processing harvests with heavy concentrated sets.
37038 <b>Lola</b>	60 - 65	Thick	Light Green to Red	BLS <sup>0-3,7,8</sup> , TSW	Widely adapted variety well suited where bacterial leaf spot or TSWV are a concern. High yield potential of large and extra-large fruit. Plants are medium strong and vigorous with good cover.
★ 37082 <b>SV3782PP</b> X3R <sup>®</sup>	70	Thick	Light Yellow to Red	BLS <sup>0-3,7,8</sup>	AKA Sweet Sunset, this variety has won the AAS. Used for 2nd early in the processing industry.
<b>Cherry</b>					
37120 <b>Cherry Pick</b>	68	Thick	Green to Red	TMV	A higher yielding, uniform, sweet cherry hybrid from Seminis. A more vigorous plant than the OP's.
<b>Cubanelle</b>					
37072 <b>Aruba</b>	64	Medium	Lime Green		A mild flavored, early, highly uniform Cubanelle hybrid from Syngenta that out-sizes competing varieties. Continuous setting for a long harvesting season, 7 ½".
37021 <b>Biscayne</b>	65 - 70	Medium	Light Yellow		Cubanelle-type hybrid for fresh market. Large pendant fruit for frying, 2 lobed.
37005 <b>Gypsy</b>	60 - 65	Medium	Light Yellow to Red	TMV	AAS winner. Early, high yielding, good flavor.
37123 <b>Key West</b> X3R <sup>®</sup>	70	Thick	Light Green to Red	BLS <sup>1,2,3</sup>	A Seminis BLS resistant Cubanelle hybrid with large sized fruit. Compare to Biscayne, 6 ½ x 2 ½".
<b>Pimiento</b>					
37059 <b>Pimiento Elite</b>	72	Thick	Green to Red	TMV	A heart shaped hybrid sweet pepper. Fruit matures from green to red, measures 3" x 3" and tapers to a blunt end. High yield potential.

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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.

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

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

PEPPERS MISCELLANEOUS Hybrid		M=1,000 seeds					
		100 Seeds	500 Seeds				
Priced per package				1M	5M	25M	50M
Price per 1,000 seeds (M)							
<b>Banana</b>							
37802	<b>Godiva</b>	11.15	49.15	70.20	65.00	61.90	59.50
37038	<b>Lola</b>	12.50	55.20	78.85	73.00	69.50	66.80
37166	<b>Sopron</b>	10.15	44.70	63.85	59.10	56.25	54.05
37082	<b>SV3782PP</b> <sup>X3R*</sup>	12.85	56.80	81.10	75.05	71.45	68.70
<b>Cherry</b>							
37120	<b>Cherry Pick</b>	10.85	47.80	68.25	63.15	60.10	57.75
<b>Cubanelle</b>							
37072	<b>Aruba</b>	11.80	52.00	74.25	68.75	65.45	62.90
37021	<b>Biscayne</b>	9.65	42.60	60.85	56.30	53.60	51.50
37131	<b>Doblon</b>	9.25	40.85	58.35	54.00	51.40	49.40
37005	<b>Gypsy</b>	8.40	37.05	52.90	48.95	46.60	44.80
37123	<b>Key West</b> <sup>X3R*</sup>	15.25	67.30	96.10	88.95	84.70	81.40
<b>Pimiento</b>							
37059	<b>Pimiento Elite</b>	8.00	35.35	50.45	46.70	44.45	42.70

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

PEPPERS MISCELLANEOUS OP Heritage Varieties		M=1,000 seeds				
		250 Seeds	500 Seeds			
Priced per package				1M	5M	50M
Price per 1,000 seeds (M)						
37316	<b>Red Baby</b> <sup>Bell</sup>	5.75	7.80	10.35	6.90	5.75
Priced per pound in these package sizes		1/2 oz.	1 oz.	4 oz.	1#	5#
37216	<b>Cubanelle</b>	7.55	10.90	34.60	100.20	98.00
37209	<b>Sweet Banana</b>	8.30	12.00	37.95	109.90	107.50
37212	<b>Sweet Cherry</b>	8.90	12.85	40.75	118.05	115.50

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



MAMMOTH ★ pg. 94

# 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-Jamaican) 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



LAMBO NEW



SPITFIRE



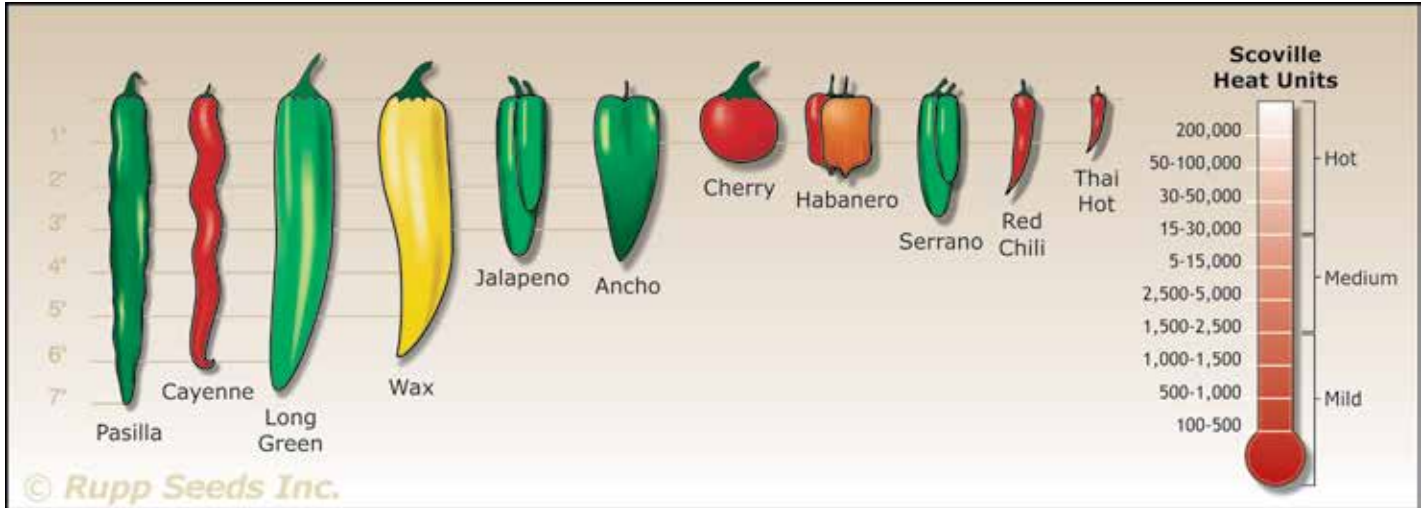
SAN ARDO



SARGENTO



TIBURON ★



PEPPERS		HOT Hybrid						Pricing on pages 95
		Days	Flesh	Color	Relative Scoville Rating	Disease	Use	Features
<b>Anaheim</b>								
37412	<b>Charger</b>	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.
<span style="background-color: red; color: white; border-radius: 50%; padding: 2px;">NEW</span> 37546	<b>Lambo</b>	75	Thick	Medium Green to Red	1,000 to 2,000	TSW	FM	A medium-large plant that has large leaves providing excellent cover for the high yields it produces. The fruit are a tapered traditional shape, green to red in color and thick walls.
37462	<b>Spitfire</b>			Green to Red	90 to 130	PHY	FM	Only known Anaheim hybrid with phytophthora resistance. Large fruit size.
<b>Ancho</b>								
37463	<b>Carranza</b>	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	<b>San Ardo</b>	75	Thick	Dark Green	1,500 to 4,000	TMV	FM	A vigorous plant that offers excellent cover for its dark green fruit. Multiple branches allow for higher yields per plant.
37457	<b>Sargento</b>	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.
<span style="color: gold;">★</span> 37455	<b>Tiburon</b>	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.
<b>Cayenne</b>								
37458	<b>Arapaho</b> <small>Cheyenne</small>	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	<b>Mesilla</b>	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.

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



ARAPAHO



BOMBITA



TIME BOMB

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



REY AKUL **NEW**



BLAZING BANANA



INFERNO ★



JEDI



MAMMOTH ★



PS11435810 ★



SV3198HJ X3R® ★



SV8066HJ X3R®

**PEPPERS**

**HOT Hybrid**

Pricing on pages 95

	Days	Flesh	Color	Relative Scoville Rating	Disease	Use	Features
<b>Hot Cherry</b>							
37467 <b>Bombita</b>	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 <b>Time Bomb</b>	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.
<b>Habanero</b>							
<b>NEW</b> 37495 <b>Rey Akul</b>	115-120	Thin	Orange	300,000		FM	This is a highly vigorous habanero that produces an excellent yield of extra-large, bright orange, triangular fruit. Rey Akul is suitable for open-field and mesh growing habitats.
<b>Hot Wax</b>							
37422 <b>Blazing Banana</b>	60 - 70	Thick	Yellow to Red	6,000 to 6,500	BLS <sup>1,2,3</sup>	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 <b>Inferno</b>	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.
<b>Jalapeño</b>							
37476 <b>Jedi</b>	70-75	Thick	Dark Green	2,500 to 3,600	BLS <sup>1,2,3</sup>	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 <b>Mammoth</b>	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 <b>PS 11435810</b>	60	Very Thick	Dark Green to Red	1,800 to 2,500	BLS <sup>0,3,7,8</sup>	FM, P	Jumbo, blocky, dark green fruit for fresh market. Continuous setting ability. Good yields and high quality.

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TALON



TRICKSTER



TZOTZIL

**POST HARVEST FINANCING AVAILABLE**

We offer a variety of financing options including 0% interest with no payments due until December 2024.

**The best rates are available before 12/31/2023.**

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

0%



**JOHN DEERE FINANCIAL**

PEPPERS		HOT Hybrid						
	Days	Flesh	Color	Relative Scoville Rating	Disease	Use	Features	
<i>Jalapeño continued</i>								
★ 37410	SV3198HJ <sup>X3R*</sup>	68	Thick	Dark Green to Red	750 to 1,000	BLS <sup>0,3,7,8</sup>	FM, P <i>Hot nacho jalapeño with concentrated set of long, cylindrical fruit. Slow to check.</i>	
37419	SV8066HJ <sup>X3R*</sup>	74	Thick	Dark Green to Red	0	BLS <sup>0-3, 7,8</sup>	FM, P <i>Offers jalapeño flavor with no heat. Great for blending with hot jalapeños to customize heat level of salsa or hot sauce.</i>	
37451	Talon	75-80	Thick	Dark Green to Red	3,500 to 6,000	BLS <sup>1,2,3</sup>	FM, P <i>Consistently produces high yields of fruit that are tolerant to anthocyanin and cracking. Vigorous plant. Very adaptable.</i>	
37479	Trickster	75	Thick	Dark Green to Red	0	BLS <sup>1,2,3</sup>	FM, P <i>A hybrid No-Heat Jalapeño. Extra large, thick walls, uniform cylindrical fruit on a medium to large plant.</i>	
37430	Tzotzil	60	Very Thick	Dark Green to Red	750 to 1,000	BLS <sup>0,3,7,8</sup> , PHY	FM, P <i>Phytophthora tolerant version of PS 11435810. Fruit may be a little longer and slightly more narrow than the 5810.</i>	

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

PEPPERS HOT Hybrid		M=1,000 seeds					
	100 Seeds	500 Seeds	1M	5M	25M	50M	
<i>Anaheim</i>							
37412	Charger	15.70	69.45	99.15	91.80	87.40	84.00
37546	Lambo	15.70	69.45	99.15	91.80	87.40	84.00
37462	Spitfire	11.65	51.50	73.55	68.10	64.85	62.35
<i>Ancho</i>							
37463	Carranza	10.75	47.45	67.75	62.70	59.70	57.40
37447	San Ardo	9.00	39.70	56.65	52.45	49.95	48.00
37457	Sargento	11.55	51.00	72.85	67.45	64.20	61.70
37455	Tiburón <sup>F300</sup>	8.00	35.35	50.50	46.75	44.50	42.75
37425	Trident <sup>F300</sup>	11.20	49.40	70.55	65.30	62.15	59.75
<i>Cayenne</i>							
37458	Arapaho <sup>Cheyenne</sup>	11.40	50.40	71.95	66.60	63.40	60.95
37413	Mesilla	10.95	48.30	69.00	63.85	60.80	58.45
<i>Hot Cherry</i>							
37467	Bombita	15.35	67.80	96.80	89.60	85.30	82.00
37417	Time Bomb	14.25	62.85	89.75	83.10	79.10	76.05
<i>Habanero</i>							
37495	Rey Akul	12.90	57.05	81.45	75.40	71.80	69.00
37432	Rey Pakal	12.90	57.05	81.45	75.40	71.80	69.00
37466	Rey Kawiil <sup>USAP 10074</sup>	12.90	57.05	81.45	75.40	71.80	69.00

PEPPERS HOT Hybrid		M=1,000 seeds					
	100 Seeds	500 Seeds	1M	5M	25M	50M	
<i>Hot Wax</i>							
37422	Blazing Banana	12.35	54.55	77.90	72.10	68.65	66.00
37408	Inferno	10.90	48.15	68.75	63.65	60.60	58.25
<i>Jalapeño</i>							
37476	Jedi	12.25	54.15	77.35	71.60	68.15	65.50
37448	Mammoth	12.25	54.15	77.35	71.60	68.15	65.50
37401	PS 11435810	12.10	53.35	76.15	70.50	67.10	64.50
37410	SV3198HJ <sup>X3R*</sup>	11.80	52.15	74.45	68.90	65.60	63.05
37419	SV8066HJ <sup>X3R*</sup>	13.35	58.90	84.10	77.85	74.10	71.25
37451	Talon	12.25	54.15	77.35	71.60	68.15	65.50
37479	Trickster	11.30	50.00	71.40	66.10	62.95	60.50
37430	Tzotzil <sup>F300</sup>	11.80	52.05	74.35	68.80	65.50	62.95



BECAN



CRACKLE



POTOSI



SUPER CHILI



TAKARA

**PEPPERS**

**HOT Hybrid**

	Days	Flesh	Color	Relative Scoville Rating	Disease	Use	Features
<i>Miscellaneous Hot</i>							
37464 <b>Becan</b>	68		Pale Yellow to Red	800 to 1,000	PHY	FM	<i>Santa Fe Grande type hybrid which is used mainly for stuffing. Phytophthora tolerant conversion of Rio de Oro.</i>
37421 <b>Crackle</b>	65	Thin	Green to Red	1,500 to 3,000		FM	<i>"Finger Hot" type with length of 4 - 5 inches. Multiple harvests with fruit maintaining good size.</i>
37465 <b>Potosi</b>				4,000 to 4,500	BLS <sup>9-3,7,8</sup> , N, TMV	FM	<i>A hybrid Serrano type with large fruit size and classic shape. Very productive.</i>
37402 <b>Super Chili</b>	75	Thin	Green to Orange Red	40,000 to 50,000		FM, HG	<i>AAS winner. Early, very productive. Home garden. An excellent substitute for Asian cooking.</i>
37420 <b>Takara</b>	60	Thin	Bright Green to Bright Red	50 to 200		FM	<i>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.</i>

**PEPPERS HOT Hybrid**

M=1,000 seeds

Priced per package	100 Seeds		500 Seeds			
	1M	5M	25M	50M		
<i>Miscellaneous Hot</i>						
37464 <b>Becan</b>	16.45	72.65	103.75	96.05	91.45	87.90
37421 <b>Crackle</b>	9.35	41.30	59.00	54.60	52.00	50.00
37465 <b>Potosi</b>	9.80	43.20	61.65	57.05	54.30	52.20
37402 <b>Super Chili</b>	10.00	44.05	62.90	58.20	55.40	53.25
37420 <b>Takara</b>	12.35	54.60	78.00	72.20	68.75	66.10

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

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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.

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

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

PEPPERS		HOT OP Heritage Varieties						
▲		Days	Flesh	Color	Class Type	Relative Scoville Rating	Use	Features
37544	<b>Anaheim Chili</b>	75	Medium Thick	Dark Green to Red	Anaheim	900 to 3,500	FM	A pungent pepper for canning, freezing or market.
37502	<b>Cayenne Long Slim</b>	72	Thin	Green to Red	Cayenne	30,000 to 50,000	P	Very productive, pungent, home garden variety.
37504	<b>Early Jalapeno</b>	63	Thick	Green to Red	Jalapeno	4,000 to 6,000	FM, P	Uniform, hot fruit. For processing or market.
37508	<b>Habanero</b>	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	<b>Hot Portugal</b>	64	Thick	Green to Bright Red	Cayenne	up to 30,000	FM, HG	Bears elongated narrow fruit, 7-8" long, glossy scarlet with superb pepper flavor and medium heat.
37501	<b>Hungarian Yellow Wax</b>	70	Medium Thick	Yellow to Red	Wax	750 to 3,000	FM, P	Cylindrical fruit are 6 to 8" long x 1 1/2 - 2" diameter fruit.
37505	<b>Jalapeno M</b>	73	Thick	Green to Red	Jalapeno	3,500 to 6,000	FM, P	Uniform, 3 1/2" fruit. Pungent for processing and market.
37512	<b>Red Cherry</b> <sup>Large</sup>	75	Medium Thick	Medium Green to Red	Cherry	3,500	FM, P	Processing, home garden, and pickling.
37509	<b>Serrano</b>	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	<b>Serrano Tampiqueno</b>	75	Medium Thick	Green to Red	Serrano	2,500 to 4,000	FM, P	Large plant bears club shaped smooth fruit 1 1/2 in. long, medium thick walls, green to red, very pungent.

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

PEPPERS HOT OP Heritage Varieties		M=1,000 seeds				
Priced per package		250 Seeds	500 Seeds			
Price per 1,000 seeds (M)		1M	5M	50M		
37508	<b>Habanero</b>	8.95	12.15	16.20	10.80	9.00
37543U	<b>Hot Portugal</b> <sup>Untreated</sup>	7.95	10.80	14.35	9.55	7.95
37515	<b>Pasilla Bajio</b>	7.95	10.80	14.35	9.55	7.95
37531	<b>Serrano Tampiqueno</b>	7.25	9.80	13.05	8.70	7.25

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



CARBONADO GOLD ★ pg. 101

# 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](http://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

	Row Width	Distance Between Plants	Plants Per Acre
<b>Category 1</b>	12'	6'	605
<b>Category 2</b>	7 ½ to 9'	4'	1,210 to 1,450
<b>Category 3</b>	6 to 7 ½'	4'	1,450 to 1,815
<b>Category 4</b>	5 to 6'	2'	3,600 to 4,350



MONSTER SMASH



WORLD OF COLOR



**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](http://www.ruppseeds.com/PumpkinGuide)



**GROWER PREFERRED ALL-STARS ★ PUMPKINS**

**XTRA LARGE**

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

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

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

**LARGE**

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

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

**MID SIZE**

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

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

**SMALL / PIE**

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

**MINIATURE**

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

**SPECIALTY**

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

**WHITE**

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



**Barry Rupp**  
Vegetable Consultant

**PUMPKINS**

**GIANT**

	Days	Weight pounds	Skin	Vine	Spacing Category	Features
38501 <b>Dill's Atlantic Giant</b> <sup>PVP</sup>	120	100 - 600	Orange	Very Large	1	<i>Produces giant show pumpkins.</i>
38092 <b>Monster Smash</b> <sup>F1</sup>	120	50 - 150	Bright Orange	Very Large	1	<i>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!</i>
38007 <b>Prizewinner</b> <sup>F1</sup>	120	50 - 200	Orange	Very Large	1	<i>An excellent display pumpkin with superior shape and color to Atlantic Giant.</i>
38074 <b>World of Color</b> <sup>Blend</sup>	120	50 - 125	Multi Colored Mix	Very Large	1	<i>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 &amp; 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.</i>

**PUMPKINS GIANT**

M=1,000 seeds

	Priced per package		Priced per pound in these package sizes		Seeds /lb.
	1 oz.	4 oz.	1#	5#	
38501 <b>Dill's Atlantic Giant</b>	17.00	44.65	134.25	131.25	1,400

**PUMPKINS GIANT**

M=1,000 seeds

	Priced per package			Price per 1,000 seeds (M)		Seeds /lb.
	25 Seeds	100 Seeds	250 Seeds	1M	3M	
38092 <b>Monster Smash</b>		63.20	116.95	311.85	308.60	2,900
38007 <b>Prizewinner</b> <sup>F1400</sup>	30.15	100.35	185.75	495.25	492.00	1,300
38074 <b>World of Color</b> <sup>Blend</sup>		65.90	121.95	325.15	321.90	1,200

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BELLATRIX



CAPTAIN JACK



EARLY GIANT ★



EARLY KING



GILTEDGE GOLD



GOLD MEDAL ★

PUMPKINS		XTRA LARGE							
		Days	Weight pounds	Skin	Powdery Mildew	Vine	Spacing Category	Bin Count	Features
38060	<b>Bellatrix</b> <sup>F1</sup>	95	25+	Orange	IR	Large Vine	1 or 2	35	Large, round, attractive orange pumpkin with a strong, dark green handle.
38551	<b>Captain Jack</b> <sup>F1</sup>	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.
★ 38009	<b>Early Giant</b> <sup>F1</sup>	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	<b>Early King</b> <sup>F1</sup>	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	<b>Giltedge Gold</b> <sup>RPX 6879 F1</sup>	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	<b>Gold Medal</b> <sup>F1</sup>	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	<b>Gold Medallion</b> <sup>F1</sup>	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	<b>Gold Rush</b>	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	<b>Gold Strike</b> <sup>F1</sup>	110	27	Orange		Vine	2	35	A Rupp pumpkin hybrid with round to slightly flattened fruit.
38500	<b>Jumpin Jack</b> <sup>TM</sup>	120	20 - 40	Orange		Large Very Vigorous	1 or 2	30	A Rupp exclusive. Very large, well handled, taller than wide variety.
38090	<b>Large Marge</b> <sup>F1</sup>	105	30 - 40	Dark Orange		Vine	1 or 2	30	An extremely large Sakata pumpkin with a large, dark, embedded handle to match the fruit size. Can set multiple fruit per plant and maintain size. Blocky round shape. Ribbed with wrinkled skin.
38537	<b>Oi Zeb's</b>	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	<b>Phat Jack</b>	125	50 +	Orange		Medium	1 or 2	25	A very large Jack O' Lantern pumpkin from Siegers. Tall with a thick handle.
38117	<b>Quigley Gold</b> <sup>RPX 6883 F1</sup>	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	<b>Solid Gold</b> <sup>F1</sup>	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.

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GOLD MEDALLION



GOLD RUSH



LARGE MARGE



OL ZEB'S



PHAT JACK



QUIGLEY GOLD



SOLID GOLD ★



20 KARAT GOLD



BANNAK GOLD



BAYHORSE GOLD ★



CARBONADO ★  
GOLD

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

PUMPKINS XTRA LARGE		M=1,000 seeds				
Priced per package		250				
Seeds		1M	3M	25M	100M	
Price per 1,000 seeds (M)						
38060	<b>Bellatrix</b> <sup>F1400</sup>	37.00	98.60	95.35	92.85	91.55
38551	<b>Captain Jack</b> <sup>F1400</sup>	39.15	104.40	101.15	98.65	97.35
38009	<b>Early Giant</b> <sup>F1400</sup>	34.35	91.60	88.35	85.85	84.55
38011	<b>Early King</b> <sup>F1400</sup>	34.75	92.55	89.30	86.80	85.50
38123	<b>Giltedge Gold</b> <sup>F1400</sup>	44.60	118.90	115.65	113.15	111.85
38050	<b>Gold Medal</b>	24.55	65.35	62.10	59.60	58.30
38050	<b>Gold Medal</b> <sup>F1400</sup>	26.90	71.65	68.40	65.90	64.60
38050U	<b>Gold Medal</b> <sup>Untreated</sup>	24.55	65.35	62.10	59.60	58.30
38071	<b>Gold Medallion</b>	18.45	49.15	45.90	43.40	42.10
38071	<b>Gold Medallion</b> <sup>F1400</sup>	20.80	55.45	52.20	49.70	48.40

PUMPKINS XTRA LARGE		M=1,000 seeds				
Priced per package		250				
Seeds		1M	3M	25M	100M	
Price per 1,000 seeds (M)						
38523	<b>Gold Rush</b>	13.60	36.15	32.90	30.40	29.10
38523	<b>Gold Rush</b> <sup>F1400</sup>	15.95	42.45	39.20	36.70	35.40
38090	<b>Large Marge</b> <sup>F1400</sup>	39.15	104.40	101.15	98.65	97.35
38117	<b>Quigley Gold</b> <sup>F1400</sup>	44.75	119.30	116.05	113.55	112.25
38085	<b>Solid Gold</b>	30.25	80.65	77.40	74.90	73.60
38085	<b>Solid Gold</b> <sup>F1400</sup>	32.65	86.95	83.70	81.20	79.90
Priced per package		1 oz.	4 oz.			
Priced per pound						
in these package sizes		1#	5#	25#		
38024	<b>Gold Strike</b>	9.40	27.75	85.30	82.30	80.30
38500	<b>Jumpin' Jack</b> <sup>TM</sup>	8.15	24.05	73.95	70.95	68.95
38537	<b>Ol Zeb's</b>	7.20	21.30	65.45	62.45	60.45
38072	<b>Phat Jack</b> <sup>F1400</sup>	16.20	47.90	147.35	144.35	142.35

PUMPKINS		LARGE							Pricing on page 102
▲		Days	Weight pounds	Skin	Powdery Mildew	Vine	Spacing Category	Bin Count	Features
38068	<b>20 Karat Gold</b> <sup>F1</sup>	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	<b>Bannack Gold</b> <sup>RPK 6208 F1</sup>	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	<b>Bayhorse Gold</b> <sup>F1</sup>	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	<b>Carbonado Gold</b> <sup>F1</sup>	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

PUMPKINS		LARGE							
		Days	Weight pounds	Skin	Powdery Mildew	Vine	Spacing Category	Bin Count	Features
38062	<b>Eagle City Gold</b> <sup>F1</sup>	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 <b>Garnet Gold</b> <sup>RPX 6209 F1</sup>	100	13 - 17	Dark Orange	HR	Medium Vine	3	40	Beautiful, round fruit have heavy ribbing, strong handles and a uniform shape.
38073	<b>Gold Challenger</b> <sup>F1</sup>	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	<b>Gold Gem</b> <sup>F1</sup>	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	<b>Orange Rave</b> <sup>F1</sup>	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	<b>Wolf</b> <sup>PVP</sup>	120	15 - 25	Deep Orange		Large	1	40	Round to oblate shaped fruit with moderate ribs and very thick, long handles. The flesh thickness is excellent which helps to prevent against flat-sided fruit and makes them heavy for their size.

PUMPKINS LARGE		M=1,000 seeds				
Priced per package	250 Seeds					
	Price per 1,000 seeds (M)	1M	3M	25M	100M	
38068 <b>20 Karat Gold</b>	23.00	61.25	58.00	55.50	54.20	
38068 <b>20 Karat Gold</b> <sup>F1400</sup>	25.35	67.55	64.30	61.80	60.50	
38112 <b>Bannack Gold</b> <sup>F1400</sup>	43.00	114.65	111.40	108.90	107.60	
38061 <b>Bayhorse Gold</b> <sup>F1400</sup>	42.85	114.15	110.90	108.40	107.10	
38069 <b>Carbonado Gold</b> <sup>F1400</sup>	44.40	118.40	115.15	112.65	111.35	
38062 <b>Eagle City Gold</b> <sup>F1400</sup>	39.00	103.95	100.70	98.20	96.90	
38113 <b>Garnet Gold</b> <sup>F1400</sup>	43.35	115.60	112.35	109.85	108.55	
38073 <b>Gold Challenger</b>	24.35	64.90	61.65	59.15	57.85	
38073 <b>Gold Challenger</b> <sup>F1400</sup>	26.70	71.20	67.95	65.45	64.15	
38001 <b>Orange Rave</b> <sup>F1400</sup>	39.00	103.95	100.70	98.20	96.90	
38550 <b>Wolf</b> <sup>F1400</sup>	31.35	83.55	80.30	77.80	76.50	
Priced per package	1 oz.	4 oz.				
Priced per pound in these package sizes			1#	5#	25#	
38051 <b>Gold Gem</b>	9.25	27.30	84.00	81.00	79.00	

PUMPKINS MID SIZE		M=1,000 seeds					
Priced per package	250 Seeds						
	Price per 1,000 seeds (M)	1M	3M	25M	100M	Seeds /lb.	
38045 <b>Gold Standard</b>	15.45	41.15	37.90	35.40	34.10	3,100	
38045 <b>Gold Standard</b> <sup>F1400</sup>	17.80	47.45	44.20	41.70	40.40	3,100	
38045U <b>Gold Standard</b> <sup>Untreated</sup>	15.45	41.15	37.90	35.40	34.10	3,200	
38019 <b>Jack of All Trades</b>	18.70	49.85	46.60	44.10	42.80	3,800	
38056 <b>Neon</b>	28.30	75.40	72.15	69.65	68.35	3,800	
38034 <b>Secretariat</b> <sup>F1400</sup>	34.50	91.95	88.70	86.20	84.90	3,000	
38076 <b>Skidoo Gold</b> <sup>F1400</sup>	36.90	98.35	95.10	92.60	91.30	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](http://www.ruppseeds.com/PName)



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GOLD STANDARD ★



NEON



SECRETARIAT



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](http://www.ruppseeds.com/PumpkinGuide)

PUMPKINS		MID SIZE									
		Days	Diameter Height	Weight pounds	Skin	Powdery Mildew	Vine	Spacing Category	Bin Count	Features	
★	38045 <b>Gold Standard</b> F1	90	13 x 13"	16	Deep Orange		Restricted Vine	3	45	A Rupp pumpkin with good handles, high yields and deep orange color. Will blend right in with Howden to bring the average size down.	
	38019 <b>Jack Of All Trades</b> 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 <b>Neon</b> 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 <b>Secretariat</b> F1	105	12 x 9"	15	Dark Orange	IR	Restricted Vine	3	45	Prolific plants produce beautiful, slightly-flattened fruit with thick handles. Works well for binned markets or road-side growers.	
★	38076 <b>Skidoo Gold</b> F1	90	10 x 11"	12 - 15	Deep Orange	HR	Restricted Vine	3	45	Blocky, heavily ribbed, mid-sized hybrid with powdery mildew tolerance. Improved uniformity and color over comparable varieties 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.

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

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

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

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



BISBEE GOLD ★



DARLING



FORT KNOX ↗



JACK SPRAT



PIK-A-PIE



PRANKSTER ★

PUMPKINS		SMALL / PIE							
▲		Days	Diameter Height	Weight pounds	Skin	Powdery Mildew	Vine	Spacing Category	Features
★	38075 <b>Bisbee Gold</b> F1	90	6 1/2 x 6 1/2"	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 <b>Darling</b> F1	90	8 x 12"	6 - 8	Dark Orange	IR	Semi Bush	3	Unique tall pie pumpkin with intermediate resistance to powdery mildew.
↗	38115 <b>Fort Knox</b> RPX.6875	90	7 x 7"	6	Dark Orange	HR	Medium	3	<b>Great for school groups!</b> High yielding pumpkin with a handle that appears as indestructible as its namesake.
	38003 <b>Jack Sprat</b> F1	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 <b>Pik-A-Pie</b> F1	85	6 x 5"	5 - 6	Orange		Semi Bush	3	Produces uniform fruit with a large, dark green handle. Yields an abundance of excellent quality pumpkins.
★	38067 <b>Prankster</b> F1	85	6 x 4"	3	Dark Orange	IR	Semi Bush	3	An excellent stemmed powdery mildew tolerant pumpkin. Good size for boxing, painting and the school market.
	38507 <b>Small Sugar</b> 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 <b>Touch of Autumn</b> F1	95	6 x 5"	2 1/4	Medium Orange	IR	Semi Bush	3	<b>Great for school groups!</b> A hybrid, with excellent handles and is just the right size for boxing. In most university trials is the highest yielding in fruit numbers and pounds per acre.
↗	38116 <b>Yosemite</b> RPX.6880	90	6 1/2 x 7"	6 - 7	Deep Orange	IR	Medium	3	<b>Great for school groups!</b> Yosemite's extra-long handle makes it an attractive addition for your farm market. Our trial co-operators love its "stunning shape and color." Stores extremely well.

PUMPKINS SMALL / PIE	M=1,000 seeds					
	250 seed	Priced per package				
	Price per 1,000 seeds (M)	1M	3M	25M	100M	Seeds /lb.
38075 <b>Bisbee Gold</b> F1400	39.30	104.80	101.55	99.05	97.75	3,100
38020 <b>Darling</b> F1400	36.55	97.40	94.15	91.65	90.35	4,100
38115 <b>Fort Knox</b> F1400	40.35	107.50	104.25	101.75	100.45	2,500
38003 <b>Jack Sprat</b> F1400	35.65	95.05	91.80	89.30	88.00	5,800
38038 <b>Pik-A-Pie</b>	16.35	43.55	40.30	37.80	36.50	3,800
38038 <b>Pik-A-Pie</b> F1400	18.70	49.85	46.60	44.10	42.80	3,700
38038U <b>Pik-A-Pie</b> Untreated	16.35	43.55	40.30	37.80	36.50	3,800
38067 <b>Prankster</b> F1400	24.40	65.05	61.80	59.30	58.00	3,400
38047 <b>Touch of Autumn</b>	11.80	31.45	28.20	25.70	24.40	5,500

PUMPKINS SMALL / PIE	M=1,000 seeds						
	250 seed	Priced per package					
	Price per 1,000 seeds (M)	1M	3M	25M	100M	Seeds /lb.	
38047 <b>Touch of Autumn</b> F1400	14.20	37.75	34.50	32.00	30.70	5,500	
38047U <b>Touch of Autumn</b> Untreated	11.80	31.45	28.20	25.70	24.40	5,500	
38116 <b>Yosemite</b> F1400	38.20	101.75	98.50	96.00	94.70	2,400	
Priced per package		1 oz.	4 oz.				
Priced per pound in these package sizes				1#	5#	25#	Seeds /lb.
38507 <b>Small Sugar</b> Asgrow Strain	5.40	15.95	49.00	46.00	44.00	3,700	

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TOUCH OF AUTUMN



YOSEMITE



BATWING MIX



GOLD DUST



GOLD SPECK



JACK-B-QUIK

PUMPKINS		MINIATURE							
		Days	Diameter Height	Weight pounds	Skin	Powdery Mildew	Vine	Spacing Category	Features
38531	<b>Baby Bear</b> <sup>PVP</sup>	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	<b>Batwing Mix</b>	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	<b>Gold Dust</b> <sup>F1</sup>	95	3 1/2 x 2"	1/3	Orange	IR	Semi Bush	4	A Rupp developed semi bush hybrid with darker fruit than Jack-B-Quik plus powdery mildew tolerance. Most fruit set close to the crown early and escape virus flecking. The strain that growers prefer.
<p><b>Waiver Needed:</b> Our current seed lot may produce up to 15% fruit that vary in shape, color, and size. We ask that you sign the "Gold Dust Agreement" on page 165. Pricing has been adjusted for this current seed lot.</p>									
	38077 <b>Gold Speck</b> <sup>F1</sup>	95	3 x 2"	1/4	Orange	IR	Bush	4	A Rupp sister bush hybrid to Gold Dust, with similar vine and fruit characteristics, but smaller than Jack-B-Quik and Munchkin. Most fruit set close to the crown early and escape virus flecking. Our highest yielding Jack-B-Little type. The strain that growers prefer.
	38525 <b>Jack-B-Quik</b>	95	3 x 2"	1/4	Orange		Medium	4	A more ribbed mini with taller and darker orange fruit.

Additional Miniature Pumpkins on the next page --->

PUMPKINS MINIATURE		M=1,000 seeds				
	Priced per package	250 seed		Seeds /lb.		
	Price per 1,000 seeds (M)	1M	3M	25M	100M	
38531	<b>Baby Bear</b>	11.65	31.00	27.75	25.25	23.95, 3,700
38066	<b>Gold Dust</b>	18.70	49.75	46.50	44.00	42.70, 6,600
38066	<b>Gold Dust</b> <sup>F1400</sup>	21.05	56.05	52.80	50.30	49.00, 6,600
38066U	<b>Gold Dust</b> <sup>Untreated</sup>	18.70	49.75	46.50	44.00	42.70, 6,700
38077	<b>Gold Speck</b>	23.20	61.80	58.55	56.05	54.75, 7,000
38077	<b>Gold Speck</b> <sup>F1400</sup>	25.55	68.10	64.85	62.35	61.05, 7,000
38077U	<b>Gold Speck</b> <sup>Untreated</sup>	23.20	61.80	58.55	56.05	54.75, 7,000
38525	<b>Jack-B-Quik</b>	7.60	20.15	16.90	14.40	13.10, 7,000
38525	<b>Jack-B-Quik</b> <sup>F1400</sup>	9.95	26.45	23.20	20.70	19.40, 7,000
38042	<b>Orangita</b> <sup>F1400</sup>	37.45	99.75	96.50	94.00	92.70, 6,500
38043	<b>Spark</b>	35.05	93.45	90.20	87.70	86.40, 5,900

PUMPKINS MINIATURE		M=1,000 seeds				
	Priced per package	250 seed		Seeds /lb.		
	Price per 1,000 seeds (M)	1M	3M	25M	100M	
38538	<b>Wee-B-Little</b>	11.95	31.75	28.50	26.00	24.70, 5,500
38538	<b>Wee-B-Little</b> <sup>F1400</sup>	14.30	38.05	34.80	32.30	31.00, 5,400
38538U	<b>Wee-B-Little</b> <sup>Untreated</sup>	11.95	31.75	28.50	26.00	24.70, 5,500
<b>WeeeeeOne Blend</b>						
38078	<b>WeeeeeOne Blend</b> <sup>F1400</sup>	26.75	71.30	68.05	65.55	64.25, 7,600
<b>WeeeeeOne Blend</b>						
38078U	<b>WeeeeeOne Blend</b> <sup>Untreated</sup>	24.40	65.00	61.75	59.25	57.95, 7,900
Priced per package		1 oz.		4 oz.		
Priced per pound in these package sizes		1#		5#		25#
						Seeds /lb.
38548	<b>Batwing Mix</b>	15.80	46.80	144.00	141.00	139.00, 5,800



ORANGITA



SPARK



WEE-B-LITTLE



WEEEEONE BLEND



BLUE DOLL



FOOL'S GOLD

PUMPKINS		MINIATURE							Pricing on page 105
Days	Diameter Height	Weight pounds	Skin	Powdery Mildew	Vine	Spacing Category	Features		
38042	<b>Orangita</b>	80	5 x 3"	1 - 1 ½	Orange	HR	Semi Bush	4	Beautiful mini pumpkin featuring a disk shape with deep ribbing. Makes for an excellent display.
38043	<b>Spark</b>	90	3.5 x 2"	½	Deep Orange / Yellow Stripes	HR	Vine	4	Very uniform, striped ornamental variety with a dark green handle that is strongly attached to the fruit. Excellent for fall decorations when used together with Casperita.
38538	<b>Wee-B-Little</b> <sup>PVP</sup>	95	3 x 3"	½	Orange		Bush	3	An AAS winner that can be carved and provides excellent plant health on a tight bush plant. A true mini pumpkin.
<p><b>Growing Tip:</b> Wee-B-Little is known for its poor yields! High levels of nitrogen causes excessive plant growth and low fruit set. If you force it into the survival mode (more like a weed) with low nitrogen, plant size will be reduced and fruit numbers will multiply and give much better yields. We have proven to ourselves low input production improves yields.</p>									
38078	<b>WEEEEOne Blend</b> <sup>F1</sup>	95	1 ½ x 1 ½" - 3 x 3"	½	Orange	IR	Large Bush	3	A unique miniature pumpkin with shallow ribs. Vigorous bush with intermediate resistance to powdery mildew and very high yields. A must have in your miniature and gourd lineup.

PUMPKINS		SPECIALTY							Pricing on page 109
Days	Diameter Height	Weight pounds	Skin	Vine	Spacing Category	Features			
38012	<b>Blue Doll</b> <sup>F1</sup>	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	<b>Dickinson Field</b>	115	14 - 18 x 12 - 14"	12 - 16	Buff Orange	Medium	4	An old widely used pumpkin variety for the processing industry.	
38114	<b>Fool's Gold</b> <sup>F1 RPX 6229</sup>	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	<b>Fright</b>	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	<b>Goose Bumps II</b> <sup>F1</sup>	95	8 X 8"	8 - 12	Orange	Medium	3	Improved Goose Bumps with higher percentage of fruit covered with warts.	
38128	<b>Grizzly Bear</b>	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	<b>HSC151</b>	110	8 ½ x 11"	9 - 14	Medium Orange / Green Stripes	Medium	3	Totally hullless, the roasted seeds are delicious with a nutty texture. Compared to other hullless varieties, maturity is earlier and seed yield is exceptional.	
38081	<b>Indian Doll</b> <sup>F1</sup>	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.	

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FRIGHT



GRIZZLY BEAR



HSC151





INDIAN DOLL



MELLOW YELLOW



MIDNIGHT

PUMPKINS		SPECIALTY						Pricing on page 109
Days	Diameter Height	Weight pounds	Skin	Vine	Spacing Category	Features		
42939	<b>Jarrahdale</b>	95	10"	7 - 8	Blue	Medium	2	<i>The favorite Australian winter squash. Excellent quality flesh, beautiful looking fruit. Good to use for both food or ornamental use.</i>
38044	<b>Mellow Yellow</b> 	100	10 x 12"	12 - 15	Yellow	Vine	2	<i>Slightly elevated profile. Medium ribbing. Intermediate tolerance to PM.</i>
38089	<b>Midnight</b> <small>Black Kat F1</small> 	77		1 - 1 1/2	Black	Semi Bush	4	<i>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. <b>Plant no earlier than June 22.</b></i>

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 more than 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](http://www.ruppseeds.com/MVPG).

### POLLINATION

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

### VARIETY CHOICE

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

### FIELD LOCATION

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

### BIOLOGICS

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

### PLANTING TIMING

This is a topic we discuss often as we continue to develop new varieties. If you are currently growing a late maturing variety and choose to also plant an early variety, DO NOT plant them on the same day. The early variety usually ripens way too early for your market and will likely rot before you harvest. We have a very handy "Pumpkin Planting/Harvesting Timing Chart" on page 103 to assist you with your planting dates.

### FERTILITY

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





NAKED BEAR



NEW ENGLAND  
CHEDDAR



ONE TOO MANY ★

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PORCELAIN DOLL



RED EYE

PUMPKINS

SPECIALTY

Pricing on page 109

		Days	Diameter Height	Weight pounds	Skin	Vine	Spacing Category	Features
38030	<b>Naked Bear</b>	105	5 x 6"	2 - 4	Light Orange	Medium	3	<i>Large handled, naked seeded variety. High yielding product for either boxed pie pumpkin or edible seed pack markets.</i>
42969	<b>New England Cheddar</b>  	112	8 ½ x 12"	15	Tan	Vine	2	<i>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.</i>
★ 42961	<b>One Too Many</b>  	110	14"	20	White Back- ground with Red Veins	Large Vine	2	<i>A Rupp product with outstanding potential for decorative use, developed through cross species breeding work. Fruit are 75% round with about 25% oblong fruit.</i>
38029	<b>Porcelain Doll</b> 	110	12 x 10"	20 - 24	Pink	Very Large Vine	3	<i>This eye-catching hybrid pink pumpkin with deep ribbing and almost square appearance, stacks well and is sure to be a winner for your market stand! When picking, wait for the stem to get fully corky for maximum pink potential.</i>
42967	<b>Red Eye</b>  	110	14"	18	Red	Large Vine	2	<i>A Rupp developed squash with excellent eating quality; will likely be used more for its decorative value.</i>
42953	<b>Red Warty Thing</b> <small>Essex Turban</small>  	110	14"	20	Bright Orange / Warted	Large Vine	2	<i>A variety sourced from the U.S. Seed Bank with an appearance that is well suited as an unusual addition for the decorative market. Good eating, Hubbard type flesh, very hard, thick rind.</i>
38533	<b>Rouge Vif d'Etampes</b> <small>Cinderella</small> 	105	15 x 6"	20	Reddish Orange	Vine	2	<i>A unique pumpkin from France. A flattened, deeply ridged fruit. Surprising beauty, great yield and flavor. Cinderella type used for stacking displays.</i>
38127	<b>Scarface</b> 	105	12 x 10"	12 - 16	Orange	Medium	3	<i>Largest variety in the Super Freak series.</i>
38084	<b>Small World of Color</b> 	110	12 x 11"	25 - 30	Multi Color	Vine	1	<i>A Rupp mix with round pumpkin shaped fruit in the maxima class that can be used in a new way of decorating. The blend contains Crystal Star that will keep its white color (not turn blue or yellow), plus a pink variety and a pink &amp; blue variety.</i>
38549	<b>Thumpkin</b> 	120	14 x 8"	15 - 25	Dark Orange	Vine	1	<i>Hard stemmed pumpkin with unique flattened fruit and a gigantic handle. Plant at 72 square feet per plant. Crowding results in fewer but larger pumpkins. From the same supplier as Wolf.</i>

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RED WARTY THING



ROUGE VIF D'ETAMPES



SCARFACE



SMALL WORLD OF COLOR



THUMPKIN



PUMPKINS SPECIALTY		M=1,000 seeds					
Priced per package		100	250				
		Seed	Seed	1M	3M	25M	100M
Price per 1,000 seeds (M)							
38012	<b>Blue Doll</b> <sup>FI400</sup>	28.70	53.10	141.55	138.30	135.80	134.50
38542	<b>Dickinson Field</b>	3.25	5.95	15.85	12.60	10.10	8.80
38542	<b>Dickinson Field</b> <sup>FI400</sup>	4.55	8.35	22.15	18.90	16.40	15.10
38114	<b>Fool's Gold</b> <sup>FI400</sup>	23.25	43.00	114.60	111.35	108.85	107.55
38118	<b>Fright</b> <sup>FI400</sup>	26.05	48.20	128.50	125.25	122.75	121.45
38093	<b>Goose Bumps II</b> <sup>FI400</sup>	24.15	44.65	119.05	115.80	113.30	112.00
38128	<b>Grizzly Bear</b> <sup>FI400</sup>	23.75	43.90	117.05	113.80	111.30	110.00
38048	<b>HSC151</b>	13.70	25.35	67.60	64.35	61.85	60.55
38081	<b>Indian Doll</b> <sup>FI400</sup>	26.90	49.75	132.55	129.30	126.80	125.50
38044	<b>Mellow Yellow</b> <sup>FI400</sup>	22.10	40.90	109.05	105.80	103.30	102.00
38089	<b>Midnight</b> <sup>Black KatFI400</sup>	20.65	38.20	101.80	98.55	96.05	94.75
38030	<b>Naked Bear</b>	17.55	32.45	86.50	83.25	80.75	79.45
	<b>New England Cheddar</b>	8.35	15.40	41.00	37.75	35.25	33.95
42969	<b>New England Cheddar</b> <sup>Untreated</sup>	8.35	15.40	41.00	37.75	35.25	33.95
42969	<b>New England Cheddar</b> <sup>FI400</sup>	9.60	17.75	47.30	44.05	41.55	40.25
42961	<b>One Too Many</b>	36.90	68.25	182.00	178.75	176.25	174.95
42961U	<b>One Too Many</b> <sup>Untreated</sup>	36.90	68.25	182.00	178.75	176.25	174.95
42961	<b>One Too Many</b> <sup>FI400</sup>	38.20	70.65	188.30	185.05	182.55	181.25

PUMPKINS SPECIALTY		M=1,000 seeds					
Priced per package		100	250				
		Seed	Seed	1M	3M	25M	100M
Price per 1,000 seeds (M)							
38029	<b>Porcelain Doll</b> <sup>FI400</sup>	36.55	67.65	180.30	177.05	174.55	173.25
42967	<b>Red Eye</b>	11.80	21.85	58.20	54.95	52.45	51.15
42967U	<b>Red Eye</b> <sup>Untreated</sup>	11.80	21.85	58.20	54.95	52.45	51.15
42967	<b>Red Eye</b> <sup>FI400</sup>	13.10	24.20	64.50	61.25	58.75	57.45
42953	<b>Red Warty Thing</b>	12.25	22.65	60.30	57.05	54.55	53.25
42953U	<b>Red Warty Thing</b> <sup>Untreated</sup>	12.25	22.65	60.30	57.05	54.55	53.25
42953	<b>Red Warty Thing</b> <sup>FI400</sup>	13.50	25.00	66.60	63.35	60.85	59.55
	<b>Rouge Vif d'Etampes</b>						
38533	<b>Rouge Vif d'Etampes</b> <sup>FI400</sup>	15.95	29.50	78.65	75.40	72.90	71.60
38127	<b>Scarface</b> <sup>FI400</sup>	24.15	44.65	119.05	115.80	113.30	112.00
38084	<b>Small World of Color</b>	49.85	92.25	246.00	242.75	240.25	238.95
38549	<b>Thumpkin</b> <sup>FI400</sup>	18.10	33.45	89.15	85.90	83.40	82.10

Priced per package		1 oz.		4 oz.					
Priced per pound									
		1#	5#	25#			Seeds /lb.		
42939	<b>Jarrahdale</b>	5.45	16.10	49.40	46.40	44.40	2,800		



The early-season insect protection offered by FarMore Technology can prevent or eliminate damage caused by cucumber beetles. Additionally, the insecticide component has shown a remarkable ability to improve plant vigor and growth under certain environmental conditions. This patented vigor effect leads to more advanced crop development and superior performance that is especially important when pumpkin crops are under stress. <http://www.syngenta-us.com/seed-treatment/farmore-fi400-cucurbits>

FarMore 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.



FarMore<sup>®</sup> treated items are highlighted in green in the price tables.

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



CASPERITA



SNOWBALL



ICICLE




















BLANCO



COTTON CANDY



WHITE GOLD 

PUMPKINS		WHITE							
		Days	Diameter Height	Weight pounds	Skin	Powdery Mildew	Vine	Spacing Category	Features
38532	<b>Baby Boo</b> <sup>PVP</sup>	100	3 x 2"	¼	White		Vine	4	A white Jack-B-Quik type variety. Should be planted later than Jack-B-Quik types because it will turn a pale yellow at full maturity.
38032	<b>Casperita</b> <sup>F1</sup> 	77	3 x 2"	½ - 1	White	IR	Semi Bush	4	Stunning personal sized hybrid with good yield. Classic shape that can be used for both ornamental and edible purposes. Ideal size for restaurant use.
38004	<b>Snowball</b> <sup>F1</sup> 	90	6 x 6"	1-2	White	IR	Vine	4	Very high yielding variety with attractive smooth round fruit. Bright white coloration with a dark green stem. Has the ability to hold white color under stress.
38122	<b>Icicle</b> <sup>F1</sup> 	105	5 x 4"	2	White	HR	Medium	4	Icicle is the perfect pie size pumpkin with a nice white color and a strong handle. It grows on a restricted vine. Pairs well with Touch of Autumn. The right size for boxing.
38033	<b>Blanco</b> 	100	8 x 6"	4 - 6	White		Medium	4	Flattened shape, medium rib and long handle. Has shown moderate resistance to color change due to sun or light frost. Great alternative for growers who require a consistent high quality white pumpkin. The stay white gene extends the harvest window.
38065	<b>Cotton Candy</b> <sup>F1</sup>  	110	9 x 8"	5 - 12	White		Vine	3	A Rupp white pumpkin with good handles, a blend of strains that range between 5 and 12 lbs. Harvest and store in the dark to maintain best white color. Excellent for painting. Flesh color is white. Despite its name, this is not good for eating.
38119	 <b>White Gold</b> <sup>F1 RPX 6927</sup>  	90	7 ½ x 8 ¾"	8	White		Medium	3	A new generation of white pumpkin with uniform, slightly ribbed fruit and a well attached black handle.
38016	<b>Casper</b>	90	8 x 10"	10 - 20	White		Medium	3	A smooth, bright white-skinned pumpkin for painting.
 38100	<b>Abominable</b> 	110	9x9	12 - 15	White		Vine	2	A round white pumpkin with a strong handle. Has good color retention and a full vine.
38510	<b>Flat White Boer Ford</b> 	115	10 x 4"	15 - 17	White		Large	2	A flat pumpkin with a creamy white rind and thick orange flesh. The vines are vigorous, providing good cover for the fruit. It is both superbly tasty and great for fall decoration. Stacks well.
38041	<b>Flat Stacker</b> 	90 - 95		15 - 20	White		Semi Bush	4	Extremely oblate shape with deep ribbing. Great for stacking. Good disease resistance.
38545	<b>Valenciano</b>	110	12 x 8"	15 - 20	White		Vine	2	A white pumpkin from Johnny's to compare to Casper and Lumina. Larger and better color with excellent flesh for pies.
 38086	<b>Crystal Star</b>  	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.
38547	<b>Full Moon</b> <sup>PVP</sup>	115	20x28"	25 - 75	White		Large	2	A large white display pumpkin. Harvest when white and store in the shade to maintain white color.
38129	<b>Polar Bear</b> 	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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ABOMINABLE **NEW**



FLAT WHITE BOER FORD



FLAT STACKER



VALENCIANO



CRYSTAL STAR ★



POLAR BEAR

PUMPKINS WHITE		M=1,000 seeds					
Priced per package		100 seed	250 seed				
Price per 1,000 seeds (M)				1M	3M	25M	100M
38100	<b>Abominable</b> <sup>FI400</sup>	39.40	105.05	101.80	99.30	98.00	
38033	<b>Blanco</b> <sup>FI400</sup>	37.55	100.05	96.80	94.30	93.00	
38032	<b>Casperita</b> <sup>FI400</sup>	42.30	112.75	109.50	107.00	105.70	
38065	<b>Cotton Candy</b>	17.35	46.25	43.00	40.50	39.20	
38065	<b>Cotton Candy</b> <sup>FI400</sup>	19.75	52.55	49.30	46.80	45.50	
38065U	<b>Cotton Candy</b> <sup>Untreated</sup>	17.35	46.25	43.00	40.50	39.20	
38086	<b>Crystal Star</b> <sup>FI400</sup>	45.55	84.30	224.75	221.50	219.00	217.70
38086U	<b>Crystal Star</b> <sup>Untreated</sup>	44.30	81.95	218.45	215.20	212.70	211.40
<b>Flat White Boer Ford</b>							
38510	<b>Ford</b> <sup>FI400</sup>	21.40	57.05	53.80	51.30	50.00	
38041	<b>Flat Stacker</b> <sup>FI400</sup>	19.50	36.05	96.05	92.80	90.30	89.00
38547	<b>Full Moon</b>	37.80	70.00	186.60	183.35	180.85	179.55

PUMPKINS WHITE		M=1,000 seeds						
Priced per package		100 seed	250 seed					
Price per 1,000 seeds (M)				1M	3M	25M	100M	
38122	<b>Icicle</b> <sup>FI400</sup>		34.45	91.80	88.55	86.05	84.75	
38129	<b>Polar Bear</b> <sup>FI400</sup>	32.30	59.75	159.30	156.05	153.55	152.25	
38004	<b>Snowball</b> <sup>FI400</sup>		43.90	117.05	113.80	111.30	110.00	
38119	<b>White Gold</b> <sup>FI400</sup>	24.45	45.20	120.50	117.25	114.75	113.45	
Priced per package		1 oz.		4 oz.				
Priced per pound in these package sizes				1#	5#	25#		
38532	<b>Baby Boo</b>		16.50	48.75	149.95	146.95	144.95	
38016	<b>Casper</b>		7.70	22.75	70.00	67.00		
38514	<b>Lumina</b> <sup>PVP</sup>		10.85	32.10	98.75	95.75	93.75	
38545	<b>Valenciano</b>		10.90	32.15	98.90	95.90	93.90	



CHAMPION



CRUNCHY KING



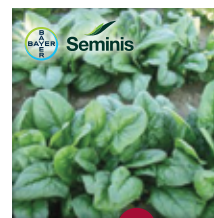
REGAL RED **NEW**



PEARL



KONA



SV2146VB **NEW**

RADISH		WINTER / ORIENTAL		
Days	Shape	Features		
39003	<b>Champion</b>	21	Globe	Bright red, globe-shaped, very firm. Slow to pith.
39004	<b>Cherry Belle</b>	21	Globe	AAS winner. Round, red, solid, crisp and very popular garden variety.
39005	<b>Crimson Giant</b>	28	Globe	Firm, crisp, white flesh with bright red skin.
39105	<b>Crunchy King</b> <sup>F1</sup>	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	<b>Easter Egg II</b>	28	Globe	Multi-line mix for the home garden. Red, pink, purple, violet and white radishes; good flavor.
39007	<b>French Breakfast</b>	24	Oblong	Skin is rose scarlet with a white tip. Flesh is white, tender and coarser than most varieties.
39102	<b>Pearl</b> <sup>F1</sup>	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	<b>Pink Celebration</b>	25	Globe	A pink skinned, white fleshed globe with crisp, firm texture that holds up well.
<b>NEW</b> 39106	<b>Regal Red</b> <sup>F1</sup>	24	Globe	A fast-maturing summer radish that produces uniform, round bulbs.
39008	<b>Sparkler Early Scarlet</b>	25	Globe	Skin is scarlet with a definite white tip. Flesh is white, crisp and tender. Popular in most areas.
39010	<b>White Globe Hailstone</b>	25	Globe	A white globe with crisp flesh. Excellent for market or garden.
39009	<b>White Icicle</b>	28	Tapered	Long and slender with white skin and white, crisp tender flesh. Very popular.

RADISH		WINTER / ORIENTAL		
Days	Features			
39701	<b>April Cross</b> <sup>F1</sup> Daikon Japanese Type	60	Extra slow bolting. Plant in early spring. Up to 15" long and 2 lbs.	
39503	<b>Black Spanish Round</b>	60	Black skin with white, tender flesh. Tolerates cool weather and stores well.	
39501	<b>China Rose</b>	52	Rose colored skin. Mild, sweet and crisp.	
39502	<b>China White</b>	55	Excellent for storage. Roots 5 - 6" long.	
<b>Minowase Summer Cross #3</b> <sup>F1</sup>				
39702	<sup>Daikon Japanese Type</sup>	50	This radish is best when harvested in the fall. Excellent quality. 15" long and weighs 2 lbs.	
39706	<b>Red Meat</b>	60	Beautiful red flesh, 3" diameter round root. Exterior is white with dark green neck.	

RADISH	M=1,000 seeds			
	Priced per package 4 oz.	1#	5#	25#
39003U <b>Champion</b> <sup>Untreated</sup>	5.05	12.00	11.75	11.50
39004U <b>Cherry Belle</b> <sup>Untreated</sup>	5.40	12.85	12.60	12.35
39005U <b>Crimson Giant</b> <sup>Untreated</sup>	5.40	12.85	12.60	12.35
39001 <b>Easter Egg II</b>	9.50	22.60	22.35	22.10
39007U <b>French Breakfast</b> <sup>Untreated</sup>	5.40	12.85	12.60	12.35
39023U <b>Pink Celebration</b> <sup>Untreated</sup>	5.70	13.50	13.25	13.00
39008U <b>Sparkler Early Scarlet</b> <sup>Untreated</sup>	5.40	12.85	12.60	12.35

RADISH	M=1,000 seeds			
	Priced per package 4 oz.	1#	5#	25#
39010U <b>White Globe Hailstone</b> <sup>Untreated</sup>	7.25	17.25	17.00	16.75
39009U <b>White Icicle</b> <sup>Untreated</sup>	5.05	12.00	11.75	11.50
Priced per 1,000 seeds in these package sizes				
39105 <b>Crunchy King</b>	1.65	1.55	1.50	1.45
39103 <b>Crunchy Royal</b>	1.55	1.45	1.40	1.35
39102 <b>Pearl</b>	2.90	2.80	2.75	2.70
39106 <b>Regal Red</b>	1.65	1.55	1.50	1.45

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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.

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

### POST HARVEST FINANCING AVAILABLE

We offer a variety of financing options including 0% interest with no payments due until December 2024.

**The best rates are available before 12/31/2023.**

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



**JOHN DEERE FINANCIAL**

# 0%

## SALSIFY

		Days	Features
40001	<b>Mammoth Sandwich Island</b>	150	Called Vegetable Oyster. Roots 8 - 9" long. Good winter keeper.

## SPINACH

Hybrid

		Days	Features
41002	<b>Kona</b>	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	<b>Olympia</b>	45	A fast growing and long standing smooth leaf hybrid for early spring or late summer sowing. Tolerant to downy mildew.
<b>NEW</b> 41003	<b>SV2146VB</b>	60	SV2146VB is a good option for growers looking for a semi-savoy variety with high yield potential, good quality, and exceptional pliability. It features rich, dark leaves that are great for bunching.

## SPINACH

OP

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

## RADISH WINTER/ORIENTAL

M=1,000 seeds

	Priced per package		M=1,000 seeds	
	1 oz.	4 oz.	1#	5#
39503U <b>Black Spanish Round</b> Untreated		7.90	16.20	15.95
39501U <b>China Rose</b> Untreated		8.30	17.00	16.75
39502U <b>China White</b> Untreated		7.90	16.20	15.95
39702 <b>Minowase Summer Cross #3</b>	23.20	74.10	211.60	210.60
39706U <b>Red Meat</b> Untreated	11.85	37.85	108.05	107.05
Priced per 1,000 seeds in these package sizes		1M	5M	25M
39701 <b>April Cross</b>		13.20	11.55	10.50

## SALSIFY

	Priced per package		M=1,000 seeds	
	1 oz.	4 oz.	1#	5#
40001U <b>Mammoth Sandwich Island</b> 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 <b>Kona</b> F300	0.59	0.51	0.46	0.43
41001 <b>Olympia</b> F300	0.56	0.48	0.43	0.40
41003 <b>SV2146VB</b>	0.59	0.51	0.46	0.43

## SPINACH OP

	Priced per package			
	4 oz.			
Priced per pound in these package sizes		1#	5#	25#
41501U <b>Bloomsdale Long Standing</b> Untreated	8.70	13.85	13.55	13.30
41502U <b>Giant Noble</b> Untreated	8.95	14.25	13.95	13.70
41503U <b>New Zealand</b> Untreated	9.30	14.85	14.55	14.30



BLONDE BEAUTY ★ pg. 117

# SQUASH SUMMER

## PLANTING

Direct seed into field. Plant 1/2" - 3/4" 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 - 2 1/2" in diameter. Another way to determine harvestability is to harvest when blossom has wilted.

## STORAGE

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

## DISEASE CODES

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

## HERBICIDE CAUTION

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

## GROWER PREFERRED ALL-STARS ★ SUMMER SQUASH

### GREEN

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

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

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

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

*Pete Dinius*  
Product Development

### YELLOW

**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.

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





BASIMA



CUE BALL



DUNJA



EIGHT BALL



GREEN MACHINE ★



LIBERTY



MAGDA



PAYCHECK



PAYLOAD ★



SPINELESS BEAUTY ★



SPINELESS ★  
PERFECTION



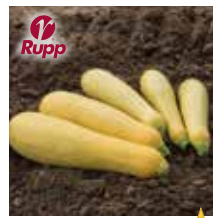
SPINELESS  
SUPREME

**SQUASH** **SUMMER GREEN Hybrid** Pricing on page 116

▲	Days	Harvest Length	Color	Type	Fruit Shape	Disease	Features
42092 <b>Basima</b>	40	4"	Pale Green	Lebanese	Tapered	WMV, ZYMV	Strong plant habit with semi-erect stem and open habit. Very productive. Perfect for stuffing.
42084 <b>Cue Ball</b>	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 <b>Dunja</b> 🌱	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 <b>Eight Ball</b>	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 <b>Green Machine</b> 🌱	45	7 - 8"	Medium Dark Green	Zucchini	Cylindrical	CMV, PM, WMV, ZYMV	Widely adaptable, high yielding variety. Has a strong semi-open plant with an excellent disease package.
42052 <b>Liberty</b> 🌱 🏠	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 <b>Magda</b>	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 <b>Paycheck</b> 🌱	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 <b>Payload</b> 🌱	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 <b>Spineless Beauty</b> 🌱	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 <b>Spineless Perfection</b> 🌱	44	7 - 8"	Medium Green	Zucchini	Cylindrical	PM, WMV, ZYMV	A spineless variety that integrates more refined flecking onto a rich looking glossy fruit. Contains the "easy pick" characteristic meaning the fruit are easily twisted from the plant leaving the peduncle and fruit still intact.
42051 <b>Spineless Supreme</b> 🌱	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 <b>Starship</b> 🌱	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.



STARSHIP



BLONDE BEAUTY ★



ENTERPRISE



FORTUNE ★

**SQUASH SUMMER GREEN Hybrid**

M=1,000 seeds

	Price per package		Price per 1,000 seeds (M)				
	100 Seeds	250 Seeds	1M	3M	25M	50M	55M
42092 <b>Basima</b>	11.30	18.80	53.65	46.65	44.90	43.90	
42072 <b>CashFlow</b> <sup>FI400</sup>	17.70	29.45	84.10	73.10	71.35	70.35	
42084 <b>Cue Ball</b>	13.60	22.65	64.60	56.15	54.40	53.40	
42096 <b>Dunja</b> <sup>FI400</sup>	18.00	30.00	85.65	74.45	72.70	71.70	
42065 <b>Eight Ball</b>	15.55	25.90	73.95	64.30	62.55	61.55	
42050 <b>Everglade</b> <sup>FI400</sup>	19.75	32.85	93.80	81.55	79.80	78.80	
42009 <b>Green Machine</b> <sup>FI400</sup>	17.70	29.50	84.25	73.25	71.50	70.50	
42052 <b>Liberty</b> <sup>FI400</sup>	13.75	22.90	65.30	56.75	55.00	54.00	
42124 <b>Magda</b>	9.15	15.25	43.55	37.85	36.10	35.10	
42088 <b>Paycheck</b> <sup>FI400</sup>	21.65	36.05	102.90	89.45	87.70	86.70	
42002 <b>Payload</b> <sup>FI400</sup>	22.80	38.00	108.55	94.35	92.60	91.60	
42027 <b>Spineless Beauty</b> <sup>FI400</sup>	15.35	25.55	72.90	63.35	61.60	60.60	
42094 <b>Spineless Perfection</b> <sup>FI400</sup>	20.50	34.15	97.55	84.80	83.05	82.05	
42051 <b>Spineless Supreme</b> <sup>FI400</sup>	21.55	35.90	102.50	89.10	87.35	86.35	
42135 <b>Starship</b> <sup>FI400</sup>	8.45	14.05	40.10	34.85	33.10	32.10	

**SQUASH SUMMER OP**

	Priced per package		Priced per pound in these package sizes	
	4 oz.		1#	5#
42101U <b>Black Zucchini</b> <sup>Untreated</sup>	9.95	26.25	26.00	
42112U <b>Dark Green Zucchini</b> <sup>Untreated</sup>	9.55	25.25	25.00	
42102U <b>Early Prolific Straightneck</b> <sup>Untreated</sup>	9.00	23.75	23.50	
42103U <b>Golden Summer Crookneck</b> <sup>Untreated</sup>	9.00	23.75	23.50	
42107U <b>Golden Zucchini</b> <sup>Untreated</sup>	10.70	28.25	28.00	
42130U <b>Saffron</b> <sup>Untreated</sup>	14.35	37.95	37.70	
42104U <b>White Bush Scallop</b> <sup>Untreated</sup>	13.25	35.00	34.75	
42116U <b>Yellow Scallop</b> <sup>Untreated</sup>	14.60	38.60	38.35	

**SQUASH SUMMER YELLOW Hybrid**

M=1,000 seeds

	Price per package		Price per 1,000 seeds (M)			
	100 Seeds	250 Seeds	1M	5M	25M	80M
42018 <b>Blonde Beauty</b> <sup>FI400</sup>	12.70	21.10	60.15	52.30	50.55	49.55
42059 <b>Enterprise</b> <sup>FI400</sup>	11.05	18.40	52.45	45.60	43.85	42.85
42042 <b>Fortune</b> <sup>FI400</sup>	9.40	15.60	44.55	38.70	36.95	35.95
42081 <b>Gentry</b> <sup>FI400</sup>	9.40	15.60	44.55	38.70	36.95	35.95
42093 <b>Goldprize</b> <sup>FI400</sup>	15.70	26.15	74.70	64.95	63.20	62.20
42049 <b>Grandprize</b> <sup>FI400</sup>	17.95	29.85	85.25	74.10	72.35	71.35
42010 <b>Sunburst</b> <sup>FI400</sup>	14.80	24.60	70.15	61.00	59.25	58.25
42133 <b>Golden Glory</b> <sup>FI400</sup>	18.00	29.95	85.45	74.30	72.55	71.55
42080 <b>One Ball</b>	15.55	25.90	73.95	64.30	62.55	61.55
42073 <b>XPT 1832 III</b> <sup>Straight FI400</sup>	67.90	64.05	61.00			

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](http://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.

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GENTRY **NEW**



GOLDEN GLORY



GOLDPRIZE



GRANDPRIZE ★



ONE BALL



SUNBURST

SQUASH		SUMMER YELLOW Hybrid						Pricing on page 116
▲		Days	Harvest Length	Color	Type	Fruit Shape	Disease	Features
★	42018 <b>Blonde Beauty</b>	40	5 - 7"	Glossy Yellow	Straightneck	Tapered		<i>Spineless petioles provide less painful picking on this hybrid from the Slickpick series. Standard commercial shape with an open plant makes a desirable package all around!</i>
	42059 <b>Enterprise</b>	41	7 - 8"	Yellow	Straightneck	Tapered		<i>Known for its very productive, vigorous plant and broad adaptability. Slim bulb, excellent fruit quality, smooth, small blossom scars.</i>
★	42042 <b>Fortune</b>	39	5 - 6"	Bright Yellow	Straightneck	Cylindrical		<i>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.</i>
<b>NEW</b>	42081 <b>Gentry</b>	43	1 ¾ X 6"	Yellow	Semi-Crook-neck	Crook	PM, CMV	<i>Gentry, a vigorous semi-crookneck summer squash, consistently produces outstanding yields of butter yellow, smooth-skinned fruit. Outstanding smoothness even under stress helps ensure marketability of fruit.</i>
	42133 <b>Golden Glory</b>	50	7 - 8"	Golden Yellow	Gold Zucchini	Cylindrical	PM, WMV, ZYMV	<i>Produces high quality uniform fruit on an open, upright and vigorous plant.</i>
	42093 <b>Goldprize</b>	42	6 - 7"	Glossy Yellow	Straightneck	Bottle	WMV, ZYMV	<i>Green-stemmed variety with high quality fruit and an attractive yellow luster. High yields of #1 fruit.</i>
★	42049 <b>Grandprize</b>	42	6 - 7"	Yellow	Straightneck	Cylindrical	PM, WMV, ZYMV	<i>Offers improved fruit coloring, great plant vigor, and solid yield potential. Solid outer texture to withstand harvest. Increased virus resistance over Goldprize.</i>
	42080 <b>One Ball</b>	38	3 x 3"	Gold	Gold Zucchini	Round		<i>Fruit set at every node and grow very rapidly after flowering. Has occasional green fruit.</i>
	42010 <b>Sunburst</b>	50	2 ½ x 3"	Bright Yellow	Scallop	Dish		<i>AAS winner. Attractive, colorful fruit. Best when young.</i>

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



UGLY DUMPLING  pg. 123

# SQUASH WINTER

## PLANTING

Plant seeds  $\frac{1}{2}$ " -  $\frac{3}{4}$ " deep. Plant spacing varies depending on vine type. Bush type plants should be planted closer and vine types should be planted farther apart. Squash need to have approximately 25 - 30 sq. ft. See the Winter Squash Planting / Harvest Timing chart on page 125 for additional information.

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

## MANAGEMENT

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

## HARVEST

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

## STORAGE

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

## PLANT SPACING

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

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

## PLANT SPACING CHART

	Row Width	Distance Between Plants	Plants Per Acre
<b>Compact Bush</b>	5'	2'	4,356
<b>Bush</b>	5'	3'	2,904
<b>Semi Bush</b>	5'	4'	2,178
<b>Restricted Vine</b>	5'	4'	2,178
<b>Vine</b>	5'	5'	1,742





AUTUMN DELIGHT ★



AUTUMN PERFECTION



CELEBRATION ★



CREAM OF THE CROP



HARLEQUIN



HEART OF GOLD

SQUASH			WINTER ACORN					
			Days	Fruit Size	Weight pounds	Color	Habit	Features
★	42311	<b>Autumn Delight</b> 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	<b>Autumn Perfection</b> F1 pmt	80	6 ½ x 5 ½"	2 - 2 ¼	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	<b>Celebration</b> F1	80	4 x 5"	1 ½	Light Yellow / Orange Sutures	Compact Bush	A powdery mildew tolerant, gold striped acorn hybrid with exceptional eating quality. Is also decorative. A sure winner.
	42304	<b>Cream of the Crop</b> F1	85	6 x 5"	1 ½ - 2	Cream	Compact Bush	AAS winner. Unique creamy white fruit. Uniform size.
	42952	<b>Harlequin</b> 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	<b>Heart of Gold</b> F1	80	4 x 5"	3	Cream / Green Stripes	Semi Bush	A winter squash striped like Sweet Dumpling, heart shaped, with fine sweet flesh. Yields have been 35% higher than Sweet Dumpling.
	42302	<b>Mashed Potato</b>	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	<b>Table Ace</b> 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	<b>Table Gold</b>	80	6 x 5"	1 ½	Golden	Bush	A golden acorn suited for home gardeners.
	42410	<b>Table Queen</b>	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 ACORN		M=1,000 seeds					
Priced per package		1 oz.	4 oz.				
Priced per pound in these package sizes		1#	5#	20#	Seeds /lb.		
42406	<b>Table Gold</b>	6.75	20.75	57.10	56.10	54.60	5,300
42410	<b>Table Queen</b>	6.50	20.00	54.50	53.50	52.00	5,200
42309	<b>Table Treat</b>	10.25	31.75	87.00	86.00	84.50	4,600
Priced per package		250 Seeds					
Price per 1,000 seeds (M)		1M	3M	25M	55M	Seeds /lb.	
42311	<b>Autumn Delight</b>	19.75	52.65	49.65	47.65	46.65	4,300
42311	<b>Autumn Delight</b> F1400	20.95	55.80	52.80	50.80	49.80	4,300
42311U	<b>Autumn Delight</b> Untreated	19.75	52.65	49.65	47.65	46.65	
42308	<b>Autumn Perfection</b> F1400	20.65	55.00	52.00	50.00	49.00	
42955	<b>Celebration</b>	13.10	34.85	31.85	29.85	28.85	4,800
42955	<b>Celebration</b> F1400	14.25	38.00	35.00	33.00	32.00	4,800

SQUASH WINTER ACORN		M=1,000 seeds					
Priced per package		250 Seeds					
Price per 1,000 seeds (M)		1M	3M	25M	55M	Seeds /lb.	
42304	<b>Cream of the Crop</b>	14.00	37.25	34.25	32.25	31.25	4,000
42304	<b>Cream of the Crop</b> F1400	15.15	40.40	37.40	35.40	34.40	4,000
42952	<b>Harlequin</b>	12.45	33.20	30.20	28.20	27.20	4,400
42930	<b>Heart of Gold</b>	14.20	37.80	34.80	32.80	31.80	4,900
42930	<b>Heart of Gold</b> F1400	15.40	40.95	37.95	35.95	34.95	4,900
42302	<b>Mashed Potato</b>	15.85	42.25	39.25	37.25	36.25	5,900
42301	<b>Table Ace</b>	15.65	41.70	38.70	36.70	35.70	4,400
42301	<b>Table Ace</b> F1400	16.85	44.85	41.85	39.85	38.85	4,400
42301U	<b>Table Ace</b> Untreated	15.65	41.70	38.70	36.70	35.70	4,400
42310	<b>Table Star</b>	11.85	31.50	28.50	26.50	25.50	3,900
42310	<b>Table Star</b> F1400	13.00	34.65	31.65	29.65	28.65	3,900
42307	<b>Taybelle PM</b> F1400	16.65	44.35	41.35	39.35	38.35	4,300



MASHED POTATO



TABLE ACE



TABLE STAR



TABLE TREAT



AUTUMN CUP ★



ECLIPSE

SQUASH		WINTER ACORN				PRICING ON PAGE 119	
Days	Fruit Size	Weight pounds	Color	Habit	Features		
42310	<b>Table Star</b> F1 pmt	80	6 x 5"	2	Jet Black with a golden star around the stem attachment	Bush	<i>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.</i>
42309	<b>Table Treat</b> F1	70	5 1/2 x 5"	1 1/2 - 1 3/4	Jet Black	Bush	<i>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.</i>
42307	<b>Taybelle PM</b> F1	80	6 x 5"	2	Jet Black	Bush	<i>A direct conversion from Taybelle to include intermediate resistance to powdery mildew. Sweet flavor and good storage quality.</i>

## GROWER PREFERRED ALL-STARS ★ WINTER SQUASH

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

### ACORN

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

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

### BUTTERCUP

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

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

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

*George Wonnacott*  
Vegetable Consultant

### BUTTERNUT

**Butternut 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.

### HUBBARD

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

### SPAGHETTI

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

### OTHER

**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



THUNDER ★

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SQUASH		WINTER BUTTERCUP / KABOCHA					
		Days	Fruit Size	Weight pounds	Color	Habit	Features
★	42935 <b>Autumn Cup</b> F1	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 <b>Buttercup Burgess</b>	110	8 - 9 x 5"	3	Dark Green	Vine	Flesh is dry and sweet, good for storage, fresh market or garden.
	42963 <b>Eclipse</b> F1	85	7 x 4"	3 1/2	Black Green	Vine	A buttercup (kabocha) hybrid.
★	42962 <b>Space Station</b> F1	90	7 x 4"	3 1/2	Black Green	Semi Bush	A semi bush kabocha hybrid with excellent flesh color and quality. Flesh is very sweet and dry. An upgrade to the long used Sweet Mama.
	42902 <b>Sunshine</b> 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 <b>Sun Spot</b> F1	75	6 x 4"	1 1/2	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 <b>Sweet Mama</b> F1	85	8 - 9 x 5"	4	Dark Green	Semi Bush	AAS winner. A kabocha with sweet flavor that stores well.
★	42968 <b>Thunder</b> F1	85	7 x 4"	3 1/2	Black Green	Vine	A buttercup (kabocha) hybrid that is an excellent yielder with dry sweet flesh.

SQUASH WINTER BUTTERCUP / KABOCHA		M=1,000 seeds				
Priced per package		1 oz.	4 oz.			
Priced per pound in these package sizes		1#	5#	20#		
42927	<b>Baby Delica</b>	29.00	93.50	257.50	256.50	255.00
42904	<b>Buttercup Burgess</b>	4.75	14.75	40.30	39.30	37.80
42905	<b>Sweet Mama</b> F1400	29.25	94.75	261.00	260.00	258.50

SQUASH WINTER BUTTERCUP / KABOCHA		M=1,000 seeds				
Priced per package		250 Seeds				
Price per 1,000 seeds (M)		1M	3M	25M	55M	
42935	<b>Autumn Cup</b>	27.75	73.95	70.95	68.95	67.95
42935	<b>Autumn Cup</b> F1400	28.95	77.10	74.10	72.10	71.10
42963	<b>Eclipse</b>	28.30	75.45	72.45	70.45	69.45
42963	<b>Eclipse</b> F1400	29.50	78.60	75.60	73.60	72.60
42962	<b>Space Station</b>	36.25	96.60	93.60	91.60	90.60
42962	<b>Space Station</b> F1400	37.45	99.75	96.75	94.75	93.75
42962U	<b>Space Station</b> Untreated	36.25	96.60	93.60	91.60	90.60
42902	<b>Sunshine</b>	24.40	65.00	62.00	60.00	59.00
42966	<b>Sun Spot</b>	25.80	68.70	65.70	63.70	62.70
42966	<b>Sun Spot</b> F1400	26.95	71.85	68.85	66.85	65.85
42968	<b>Thunder</b>	28.90	77.00	74.00	72.00	71.00
42968	<b>Thunder</b> F1400	30.10	80.15	77.15	75.15	74.15



BETTERNUT 23



BETTERNUT 401



BETTERNUT 900 ★



BETTERNUT 1744



BUGLE



BUTTERBABY

SQUASH		WINTER BUTTERNUT					
		Days	Fruit Size	Weight pounds	Color	Habit	Features
42617	<b>Atlas</b> F1	100 - 110	10 - 12"	5 - 7	Light Tan	Semi Bush	A uniform butternut hybrid. High yields. Good for processing.
42613	<b>Avalon</b> F1	88	11"	4 - 5	Buff	Vine	This Hollar Seeds butternut is a good packing and high yielding variety.
42606	<b>Betternut 23</b> 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.
42614	<b>Betternut 401</b> F1 pmt	80	8 - 9"	2 ¾	Light Tan	Semi Bush	A hybrid with good flesh color and uniformity on a semi bush plant. Powdery mildew tolerant.
★ 42622	<b>Betternut 900</b> F1 pmt	80	8 - 9"	3	Light Tan	Semi Bush	Overall best variety in the Betternut series for boxing. Powdery mildew tolerant.
42976	<b>Betternut 1744</b> F1 pmt	80	8 - 9"	3 ¼	Light Tan	Semi Bush	Slightly larger than Betternut 900 for farm markets and roadside stands. Provides powdery mildew tolerance.
42704	<b>Bugle</b>	80	10"	3	Light Tan	Semi Bush	Uniform fruit that are slightly smaller than Waltham. Bred by Molly Jahn and George Moriarty at Cornell.
42607	<b>Butterbaby</b>	100 - 105	5 - 6"	½ - 1	Buff	Semi Bush	High eating quality variety that is perfect size for CSA box growers and personal-sized market. Very nice color and shape while maturing earlier than Honeynut. Longer storage ability than Honeynut.
42702	<b>Honeynut</b>	105 - 110	4 - 5"	½ - 1	Dark Tan	Restricted Vine	Produces single-serving squash with very sweet and delicious flavor. Very high yielding.
42626	<b>Quantum</b> F1	100 - 110	7"	2 ½ - 4 ½	Light Tan	Vine	Large necked, blocky fruit. Thick flesh.
★ 42615	<b>Ultra</b> F1	90	15"	10	Light Tan	Vine	A high yielding large butternut for both processors and market gardeners.
42701	<b>Waltham</b>	97	10 - 12"	3 - 6	Light Tan	Vine	Vigorous, fruit size more variable than hybrids.

SQUASH WINTER BUTTERNUT		M=1,000 seeds						
Priced per package		1 oz.	4 oz.					
Priced per pound in these package sizes					1#	5#	20#	Seeds /lb.
42704	<b>Bugle</b>	8.50	26.50	72.95	71.95	70.45	5,600	
42701	<b>Waltham</b>	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	<b>Atlas</b> F1400	25.35	67.50	64.50	62.50	61.50	5,100	
42613	<b>Avalon</b> F1400	24.30	64.80	61.80	59.80	58.80	5,000	
42606	<b>Betternut 23</b>	15.55	41.45	38.45	36.45	35.45	5,000	
42606	<b>Betternut 23</b> F1400	16.75	44.60	41.60	39.60	38.60	5,000	
42614	<b>Betternut 401</b>	14.95	39.75	36.75	34.75	33.75	6,000	
42614	<b>Betternut 401</b> F1400	16.10	42.90	39.90	37.90	36.90	6,000	

SQUASH WINTER BUTTERNUT		M=1,000 seeds					
Priced per package		250 Seeds					
Price per 1,000 seeds (M)		1M	3M	25M	100M	Seeds /lb.	
42622	<b>Betternut 900</b>	17.25	45.95	42.95	40.95	39.95	4,600
42622	<b>Betternut 900</b> F1400	18.45	49.10	46.10	44.10	43.10	4,600
42622U	<b>Betternut 900</b> Untreated	17.25	45.95	42.95	40.95	39.95	4,600
42976	<b>Betternut 1744</b>	14.85	39.60	36.60	34.60	33.60	5,000
42976	<b>Betternut 1744</b> F1400	16.05	42.75	39.75	37.75	36.75	5,000
42607	<b>Butterbaby</b> F1400	16.05	42.75	39.75	37.75	36.75	5,800
42702	<b>Honeynut</b>	12.75	34.00	31.00	29.00	28.00	
42626	<b>Quantum</b> F1400	25.15	67.00	64.00	62.00	61.00	4,900
42615	<b>Ultra</b> F1400	23.90	63.70	60.70	58.70	57.70	4,500

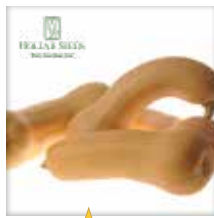
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HONEYNUT



QUANTUM



ULTRA ★



LA ESTRELLA



BUSH DELICATA



JESTER

SQUASH		WINTER CALABASA				
▲		Days	Weight pounds	Color	Habit	Features
42802	<b>La Estrella</b> <sup>F1</sup>	125 Northern U.S. / 70 Florida in Winter	10# Northern U.S. Summer / 6# Florida Winter	Green and Tan	Vine	A Rupp exclusive from the University of Florida. Bred by Dr. Don Maynard for uniform fruit size and superior flesh color. Fruit are a popular choice for use in Pun-kin Chunkin contests.

SQUASH		WINTER DELICATA / SWEET DUMPLING					
▲		Days	Fruit Size	Weight pounds	Color	Habit	Features
42957	<b>Bush Delicata</b>	105	5 - 6"	2	White / Green Stripes	Bush	An AAS winner bred by Cornell and marketed by Rupp. A typical delicata fruit on a bush plant with strong tolerance to powdery mildew.
42931	<b>Delicata</b>	100	5 - 6"	2 - 3	Green / White Stripes	Vine	<b>CROP FAILURE</b> Colorful with fine grained, sweet flesh. An improved strain with better fruit shape.
42945	<b>Festival</b> <sup>F1</sup>	100	4 - 5"	1 ½ - 2	Yellow Green Orange	Vine	<b>CROP FAILURE</b> A Carnival type squash with fewer oversized fruit, similar color and flesh quality. Fruit shape is between an acorn and Sweet Dumpling. Highly ornamental with great eating quality.
42933	<b>Jester</b> <sup>F1</sup>	95	5 - 7"	1 ½	Ivory / green inter-rib stripes	Short Vines	Superb flavor with eye-catching fruit. Oval and tapered at both ends, with small to average ribs. Among the best in eating quality. About 60 days storage time.
42911	<b>Sweet Dumpling</b>	100	4"	1	Cream Striped	Vine	Colorful, acorn shape, sweet flesh. Stores 3 - 4 months.
★ 42501	<b>Sweet Lightning</b> <sup>F1 pmt</sup>	100	3 x 5"	1 - 1 ¼	Pale Yellow / Orange Stripes	Semi Bush	A Rupp product with both outstanding decorative and eating qualities. Is one of the best flavored when used as a squash. Has powdery mildew tolerance on a semi-bush vine.
42934	<b>Ugly Dumpling</b> <sup>F1</sup>	100	2 ½ x 3 ¾	¾ - 1	Tan / Green Stripes	Semi Bush	While at first glance it may not have great eye appeal, our trial partners tell us its one of the best tasting winter squash they've ever tried, and its unique appearance makes it an option for fall decoration too.

SQUASH WINTER CALABASA		M=1,000 seeds			
Priced per package		250 Seeds			
Price per 1,000 seeds (M)		1M	3M	25M	55M
42802	<b>La Estrella</b>	14.95	39.75	36.75	33.75

SQUASH WINTER DELICATA / SWEET DUMPLING		M=1,000 seeds				
Priced per package		1 oz.		4 oz.		
Priced per pound in these package sizes		1#	5#	25#		
42931	<b>Delicata</b>	Crop Failure				
42945	<b>Festival</b>	Crop Failure				
42911	<b>Sweet Dumpling</b> <sup>F1400</sup>	14.25	45.50	125.50	124.50	123.00
Priced per package		250 Seeds		M=1,000 seeds		
Price per 1,000 seeds (M)		1M	3M	25M	100M	
42957	<b>Bush Delicata</b>	13.15	35.00	32.00	30.00	29.00
42957	<b>Bush Delicata</b> <sup>F1400</sup>	14.35	38.15	35.15	33.15	32.15
42933	<b>Jester</b>	16.45	43.80	40.80	38.80	37.80
42501	<b>Sweet Lightning</b>	22.45	59.80	56.80	54.80	53.80
42501	<b>Sweet Lightning</b> <sup>F1400</sup>	23.65	62.95	59.95	57.95	56.95
42934	<b>Ugly Dumpling</b> <sup>F1400</sup>	24.25	64.55	61.55	59.55	58.55



FESTIVAL



SWEET LIGHTNING ★



UGLY DUMPLING ↴



HEAVENLY HUBBARD



NK580



RSP1232

SQUASH		WINTER HUBBARD					
▲		Days	Fruit Size	Weight pounds	Color	Habit	Features
42913	<b>Baby Blue</b>	90	5 x 6"	3	Blue Gray	Vine	Flattened to round in shape, grayish blue skin, yellow flesh. Good flavor when cooked.
42906	<b>Blue Hubbard</b>	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 <b>Blue Hubbard New England</b> 🌱	120	20 - 30"	30 - 45	Blue Gray	Vine	Largest of the hubbards. Flesh is orange with fine texture and flavor. Rupp produced.
42944	<b>Blue Magic</b> 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	<b>Chicago Warted</b>	115	10 x 13"	12 - 14	Green Black	Vine	Large warts, flesh is rich, fine grained and dry. Use for market or garden.
42907	<b>Golden Delicious</b> 🌱	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	<b>Golden Hubbard</b>	110	11 x 9"	10	Orange	Vine	Slightly smaller than most hubbards, slightly warted, orange color with tan stripes toward blossom end.
42909	<b>Green True</b>	105	9 x 12"	12 - 14	Dark Green	Vine	Good shipper and keeper.
42977	<b>Heavenly Hubbard</b> F1	100	12 x 15"	15 - 20	Blue Gray	Vine	A Hubbard hybrid with thick, fine textured flesh and sweet flavor.
42921	<b>NK580</b> F1 🌱 🌱	105	12 x 14"	14 - 16	Golden	Vine	An improved, very high yielding, golden hubbard hybrid. Great for pies and pastries.
42972	<b>RSp1232</b> 🌱 🌱	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	<b>RSp1962</b> 🌱 🌱	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	<b>Uchiki Kuri</b>	90	7 x 7"	2 ½	Orange Red	Vine	Improved smooth Hubbard selection with almost no ribbing on the fruit. Flesh is very sweet and nutty in flavor.

	SQUASH WINTER HUBBARD		M=1,000 seeds			
	Priced per package		1 oz.	4 oz.		
	Priced per pound in these package sizes		1#	5#	25#	
42913	<b>Baby Blue</b>	7.00	22.00	60.25	59.25	57.75
42906	<b>Blue Hubbard</b>	4.50	13.75	37.70	36.70	35.20
42944	<b>Blue Magic</b>	14.75	46.75	128.50	127.50	126.00
42908	<b>Chicago Warted</b>	4.25	13.25	36.10	35.10	33.60
42926	<b>Golden Hubbard</b>	4.50	13.75	37.70	36.70	35.20
42909	<b>Green True</b>	4.50	13.75	37.70	36.70	35.20
42919	<b>Uchiki Kuri</b>	14.75	46.75	128.80	127.80	126.30

	SQUASH WINTER HUBBARD		M=1,000 seeds			
	Priced per package		250 Seeds			
	Price per 1,000 seeds (M)		1M	3M	25M	55M
42918	<b>Blue Hubbard New England</b>	16.60	44.20	41.20	39.20	38.20
42918	<b>Blue Hubbard New England</b> F1400	17.80	47.35	44.35	42.35	41.35
42907	<b>Golden Delicious</b>	8.70	23.20	20.20	18.20	17.20
42907	<b>Golden Delicious</b> F1400	9.90	26.35	23.35	21.35	20.35
42977	<b>Heavenly Hubbard</b>	57.40	153.00	150.00	148.00	147.00
42921	<b>NK580</b>	16.00	42.55	39.55	37.55	36.55
42921	<b>NK580</b> F1400	17.15	45.70	42.70	40.70	39.70
42972	<b>RSp1232</b> F1 F1400	19.55	52.05	49.05	47.05	46.05
42982	<b>RSp1962</b> F1 F1400	18.80	50.10	47.10	45.10	44.10

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RSP1962



SPAGHETTI



PRIMAVERA ★



PINNACLE



TIVOLI



VEGETABLE SPAGHETTI

SQUASH		WINTER SPAGHETTI					Pricing on page 126
▲		Days	Fruit Size	Weight pounds	Color	Habit	Features
42950	<b>Pinnacle</b> <sup>F1</sup>	85	7 x 5"	3	Bright Yellow	Semi-Bush	<i>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.</i>
★ 42946	<b>Primavera</b> <sup>F1</sup>	90 - 95	5 ½ x 10"	2 ½ - 3	Canary Yellow	Restricted Vine	<i>A high yielding Sakata hybrid with good uniformity and attractive color.</i>
42947	<b>Small Wonder</b>	90	6"	1 ½ - 2	Light Orange	Vine	<i>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.</i>
42903	<b>Spaghetti</b>	105	8 - 10"	2 ½ - 3	Light Yellow	Vine	<i>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.</i>
42929	<b>Stripetti</b> <sup>F1</sup>	95	12"	4	Tan with Green Stripes	Vine	<i>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.</i>
42920	<b>Tivoli</b> <sup>F1</sup>	95	6 - 7"	3 - 4	Creamy	Bush	<i>AAS Winner. First bush spaghetti squash.</i>
42981	<b>Vegetable Spaghetti</b> <sup>Sakata</sup>	100	5 ½ x 10"	2 ½	Creamy Yellow	Vine	<i>Sakata's popular OP spaghetti squash introduced years ago. Long, oval shaped with noodle-like strands inside when cooked.</i>

### WINTER SQUASH PLANTING/HARVESTING TIMING CHART

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

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

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

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

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



AUTUMN FROST



GALEUSE D'EYSINES ★



MARINA DE CHIOGGIA ★



RUPP'S TURK'S TURBAN ★



TINY TURK

ORDERS OVER \$350 ARE SHIPPED FREE!

SQUASH		WINTER OTHER					Pricing on page 127
▲		Days	Fruit Size	Weight pounds	Color	Habit	Features
42989	<b>Autumn Frost</b>	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	<b>Banana Pink Jumbo</b>	105	20"	15	Pink / Orange	Vine	Thick, fine grained, light orange flesh. Delicious flavor.
38505	<b>Cushaw Green Striped</b>	110	17 x 10"	25 - 40	White / Green Stripe	Vine	Fine grained flesh. Good for pies or canning.
★ 42971	<b>Galeuse d'Eysines</b>	100	6 1/2 x 11"	18	Pink	Vine	A warty squash from France with ornamental value plus delicious when fried in butter.
42948	<b>Georgia Candy Roaster</b>	110	2 1/2 - 3'	up to 60	Pink / Orange	Vine	A long, narrow fruited heirloom that is known for its outstanding baking quality. One of the sweetest and tastiest. Enough for the entire village.
★ 42970	<b>Marina de Chioggia</b>	100	7 x 11"	11	Green warty	Vine	A unique green warty squash from Italy with ornamental value. Bred to be used in gnocchi and ravioli.
★ 26017	<b>Rupp's Turk's Turban</b>	110	15 x 10	16-45	Orange, Green and White	Vine	Large ornamental turban.
42105	<b>Sweet Meat</b>	100	9 x 5"	10	Blue Green	Vine	An excellent keeper with great tasting flesh. Makes superior pies. An old time favorite of the Northwest.
26024	<b>Tiny Turk</b>	100	4 x 5"	1 1/2 - 3	Orange, Green and White	Vine	A smaller selection of Turk's Turban. Used primarily as decoration.
42938	<b>Tricolor Cushaw</b>	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	<b>Turk's Turban</b>	100	7 x 8"	3 - 4	Orange, Green and White	Vine	An ornamental and edible squash/gourd. Attractive for displays. Keeps well.

SQUASH WINTER SPAGHETTI		M=1,000 seeds				
	Priced per package	1 oz.		4 oz.		
		1#	5#	25#		
42903	<b>Spaghetti</b>	6.75	21.00	57.50	56.50	55.00
42920	<b>Tivoli</b> <small>F1400</small>	17.75	56.75	156.50	155.50	154.00
42981	<b>Vegetable Spaghetti</b> <small>Sakata F1400</small>	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	<b>Pinnacle</b> <small>F1400</small>	36.50	97.30	76.60	76.10	2,600
42946	<b>Primavera</b> <small>F1400</small>	28.85	76.85	60.50	60.00	3,500
42947	<b>Small Wonder</b>	29.70	79.20	62.35	61.85	2,000
42929	<b>Stripetti</b>	27.75	74.00	58.25	57.75	5,900

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FULL SUN IMPROVED



GOLDEN RAY **NEW**



GOLDY DOUBLE

**POST HARVEST FINANCING AVAILABLE**

We offer a variety of financing options including 0% interest with no payments due until December 2024.

**The best rates are available before 12/31/2023.**

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

**0%**



**JOHN DEERE FINANCIAL**

**SUNFLOWER & CUT FLOWERS**

Pricing on page 127 & 129

	Days	Features
47007 <b>Full Sun Improved</b>	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 <b>Giant Striped</b>	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.
<b>NEW</b> 47081 <b>Golden Ray</b> F1	50-55	A unique "Gladiola" flower arrangement along the stem. Flower diameter 5-10cm. Excellent for a cut flower as well as a garden ornament. Best performance when top flower removed.
47010 <b>Goldy Double</b>	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 <b>Lemon Queen</b>	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.
<b>NEW</b> 47030 <b>NuSun 5045CL</b>	95	A mid-maturity black oil that includes Clearfield protection and shows excellent late-season standability. This variety is one of the industries leading downy mildew tolerance sunflowers.
47014 <b>Sunspot Dwarf</b>	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 <b>Velvet Queen</b>	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.

Additional Cut Sunflowers and Zinnias can be found on the next page --->.

**SQUASH WINTER OTHER**

M=1,000 seeds

	Priced per package		Priced per pound in these package sizes			
	1 oz.	4 oz.	1#	5#	25#	
42901 <b>Banana Pink Jumbo</b>	6.75	21.25	58.00	57.00	55.50	
38505 <b>Cushaw Green Striped</b>	6.75	21.25	58.00	57.00	55.50	
42948 <b>Georgia Candy Roaster</b>	7.50	23.75	65.50	64.50	63.00	
42105U <b>Sweet Meat</b> Untreated	4.75	14.75	40.45	39.45	37.95	
42938 <b>Tricolor Cushaw</b>	7.25	23.00	63.00	62.00	60.50	
26007 <b>Turk's Turban</b>	6.75	20.75	56.65	55.65	54.15	
42954 <b>Zapalo Plomo</b>	7.25	23.00	63.00	62.00	60.50	
	Priced per package		Priced per 1,000 seeds (M)			
	250 Seeds		1M	3M	25M	55M
42989 <b>Autumn Frost</b>	27.75	74.00	71.00	69.00	68.00	
42971 <b>Galeuse d'Eysines</b> Peanut	26.10	69.60	66.60	64.60	63.60	
42971U <b>Galeuse d'Eysines</b> Peanut Untreated	26.10	69.60	66.60	64.60	63.60	
42971 <b>Galeuse d'Eysines</b> Peanut FI400	27.30	72.75	69.75	67.75	66.75	
42970 <b>Marina de Chioggia</b>	30.90	82.40	79.40	77.40	76.40	
42970U <b>Marina de Chioggia</b> Untreated	30.90	82.40	79.40	77.40	76.40	
42970 <b>Marina de Chioggia</b> FI400	32.10	85.55	82.55	80.55	79.55	
26017 <b>Rupp's Turk's Turban</b> FI400	20.95	55.80	52.80	50.80	49.80	
26024 <b>Tiny Turk</b>	15.80	42.05	39.05	37.05	36.05	
26024 <b>Tiny Turk</b> FI400	16.95	45.20	42.20	40.20	39.20	

**SUNFLOWER**

M=1,000 seeds

	Priced per package		Priced per pound in these package sizes			
	1 oz.	4 oz.	1#	5#	50#	
47005U <b>Giant Striped</b> Untreated	7.70	14.00	13.50	13.25		
47016U <b>Lemon Queen</b> Untreated	5.00	16.30	45.90	44.90		
47014U <b>Sunspot Dwarf</b> Untreated	4.95	16.20	45.60	44.60		
47015U <b>Velvet Queen</b> Untreated	4.90	16.05	45.15	44.15		
	Priced per 1,000 seeds in these package sizes		5M	25M	50M	100M
47028 <b>NuSun 545CL</b> Clearfield	7.00	6.00	5.50	5.25		
47030 <b>NuSun 5045CL</b> Clearfield	7.25	6.25	5.75	5.50		

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



SUNFILL PURPLE



SUNRICH GOLD



SUNRICH LEMON



SUNRICH LIME

## SUNFLOWER & CUT FLOWERS

Pricing on page 129

	Days	Features	
<b>Cut Flowers</b>			
<b>ProCut Series Sunflowers</b>			
<i>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.</i>			
47037	<b>ProCut Bicolor</b>	50-60	<i>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.</i>
47036	<b>ProCut Horizon</b>	45-55	<i>A newer ProCut variety, with rich overlapping orange petals surrounding a traditional dark disc, with perfect upward facing blooms.</i>
47035	<b>ProCut Orange Excel</b>	45-55	<i>The next generation of ProCut series. Deep orange color with upright flowers.</i>
47033	<b>ProCut Plum</b>	50-60	<i>Is it pink? Rose? Mauve? Unique plum colored petals.</i>
47034	<b>ProCut Red</b>	50-60	<i>The latest breakthrough in sunflowers! Deep burgundy colored petals.</i>
47031	<b>ProCut White Lite</b>	50-60	<i>Lush white petals border a light colored center disc. An excellent choice paired with other flowers in bouquets.</i>
47032	<b>ProCut White Nite</b>	50-60	<i>White petals with a dark center. With unlimited possibilities. Can even be dyed red and blue for a July 4th vase.</i>
47080	<b>ProCut Blend</b>	45-60	<i>A blend of the five most popular ProCut Sunflower Series. Plum, Red, White Nite, Horizon and Orange Excel</i>
<b>SunFill Series Sunflowers</b>			
47041	<b>SunFill Green</b>	55-60	<i>SunFill Series Sunflowers are a unique, novel green and purple sunflower. Fast growing sunflower that produces a 3-4" geometric flower head for use as bouquet greenery. They have highly ornamental sepals that wrap the flower face, creating a look typically only found on the back of the flower. Pollenless, single stem. Ht: 60-72". Should be cut early.</i>
47042	<b>SunFill Purple</b>	55-60	
<b>Sunrich Series Sunflowers</b>			
47001	<b>Sunrich Gold</b>	55-70	<i>Sunrich Series Cut Sunflowers. An early, male sterile, pollenless sunflower used exclusively for the cut flower market. A 48" - 60" plant when cut will have a height of 2 - 2 1/2 feet, with a 5 - 6" flower. Works best if direct sown with a 5" spacing. Need to keep a dense planting. Over fertilizing will cause the flower to grow too big for floral purposes.</i>
47002	<b>Sunrich Lemon</b>	55-70	
47006	<b>Sunrich Lime</b>	55-70	
47003	<b>Sunrich Orange</b>	55-70	
47070	<b>Sunrich Blend</b>	50-70	<i>A blend of the five Sunrich Sunflower Series.</i>
47004	<b>Sunrich Limoncello Summer</b>	50-65	<i>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.</i>
<b>Zinnia</b>			
50001	<b>Benary Giant Zinnia Mix</b>	63-70	<i>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.</i>
50002	<b>Uprior Rose Zinnia</b>	70-80	<i>Tall-growing, well-branched Zinnia with bright rose 4-5" double blooms. Very uniform 28-36" height. A prized cut flower.</i>



SUNRICH ORANGE



SUNRICH LIMONCELLO SUMMER



BENARY GIANT MIX



UPROAR ROSE



CELEBRATION



SUPER VERDE

SWISS CHARD		Days	Features
43006	<b>Celebration</b>	60	A multi-colored chard. It exhibits highly uniform plants with dark green, glossy leaves. It has vibrant multi-colored petioles and venations with high percentage of pink, yellow and orange chards. Great for producing full-sized specialty chard or baby leaf.
43004	<b>Five Color</b> <small>Australian Heirloom</small>	60	Offers growers a rainbow of stem colors: yellow, gold, orange, pink, violet, green, white, red or striped, plus green, dark green or bronze leaf colors. Has improved tenderness and a mild chard flavor. Can be used fresh as a miniature leaf in salads or cooked when more mature.
43001	<b>Fordhook Giant</b>	60	A vigorous variety with dark green, savoyed, fleshy leaves. Stalks are 2 1/2" wide.
43801	<b>Lucullus</b>	60	A fool-proof variety that grows well, even in the heat. Harvest outer leaves for continuing harvest.
43002	<b>Rhubarb</b>	60	Unique crimson stalks look like rhubarb. Dark green, heavily crumpled leaves have delicious flavor.
43003	<b>Silverado</b>	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	<b>Super Verde</b>	80	A green hybrid tomatillo that has mid maturity, plus a nice plant with strong vigor and cover. Fruit set is very good and offers improved uniformity, yield potential and longer cycle production. Fruit are firm, have healthy husks, attractive green color and above average shelf life.


SUNFLOWER	M=1,000 seeds		
	Priced per package Price per 1,000 seeds (M)	500 Seeds	1M 5M
<b>Cut Flowers</b>			
47081U <b>Golden Ray</b> <small>Untreated</small>		30.75	48.50 44.00
47010U <b>Goldy Double</b> <small>Untreated</small>		16.50	26.00 23.50
47007U <b>Full Sun Improved</b> <small>Untreated</small>		27.25	43.00 39.00
47037U <b>ProCut BiColor</b> <small>Untreated</small>		19.75	31.00 28.00
47036U <b>ProCut Horizon</b> <small>Untreated</small>		19.75	31.00 28.00
47035U <b>ProCut Orange Excel</b> <small>Untreated</small>		19.75	31.00 28.00
47033U <b>ProCut Plum</b> <small>Untreated</small>		19.75	31.00 28.00
47034U <b>ProCut Red</b> <small>Untreated</small>		22.00	34.75 31.50
47031U <b>ProCut White Lite</b> <small>Untreated</small>		27.25	43.00 39.00
47032U <b>ProCut White Nite</b> <small>Untreated</small>		27.25	43.00 39.00
47080U <b>ProCut Blend</b> <small>Untreated</small>		24.25	38.25 34.75
47041U <b>SunFill Green</b> <small>Untreated</small>		27.25	43.00 39.00
47042U <b>SunFill Purple</b> <small>Untreated</small>		27.25	43.00 39.00
47001U <b>Sunrich Gold</b> <small>Untreated</small>		29.50	46.75 42.30
47002U <b>Sunrich Lemon</b> <small>Untreated</small>		29.50	46.75 42.30
47006U <b>Sunrich Lime</b> <small>Untreated</small>		29.50	46.75 42.30
<b>Sunrich Limoncello Summer</b>			
47004U <small>Untreated</small>		29.50	46.75 42.30
47003U <b>Sunrich Orange</b> <small>Untreated</small>		29.50	46.75 42.30
47070U <b>Sunrich Blend</b> <small>Untreated</small>		30.00	47.25 42.80

CUT FLOWERS	M=1,000 seeds		
	Priced per package Price per 1,000 seeds (M)	250 Seeds	1M 5M
<b>Zinnia</b>			
50001U <b>Benary Giant Zinnia Mix</b> <small>Untreated</small>		24.00	37.75 34.15
50002U <b>Uproar Rose Zinnia</b> <small>Untreated</small>		66.75	105.75 96.00

SWISS CHARD	M=1,000 seeds			
	Priced per package Price per pound in these package sizes	4 oz.	1#	5# 25#
43004U <b>Five Color</b> <small>Untreated</small>		12.65	33.00 32.75	32.25
43001U <b>Fordhook Giant</b> <small>Untreated</small>		6.00	15.60 15.35	14.85
43801U <b>Lucullus</b> <small>Untreated</small>		5.50	14.25 14.00	13.50
43002U <b>Rhubarb</b> <small>Untreated</small>		8.90	23.25 23.00	22.50
43003 <b>Silverado</b>		3.55	9.25 9.00	8.50
<b>Priced per 1,000 seeds in these package sizes</b>				
43006 <b>Celebration</b>		3.85	3.60 3.45	3.35

TOMATILLO	M=1,000 seeds					
	Priced per package Price per 1,000 seeds (M)	100 Seeds	500 Seeds	1M	5M	25M 100M
44530 <b>Super Verde</b>		4.65	15.35	24.50	21.30	19.35 18.40



STM2255  pg. 134

# TOMATOES

## PLANTING

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

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

## MANAGEMENT

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

[www.ruppseeds.com/MVPG](http://www.ruppseeds.com/MVPG)

## HARVEST

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

## STORAGE

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

## DISEASE CODES

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

## USE

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

## TERMS

GS - Green Shoulders  
LGS - Light Green Shoulders when ripe  
UG - Uniform Green Gene ripe fruit are a uniform color  
DT - Determinate restricted vine or bush  
INDT - Indeterminate vining type used primarily in home gardens



BETTER BOY PLUS



BIG BEEF PLUS



CELEBRITY



CELEBRITY PLUS ★



EARLY GIRL PLUS



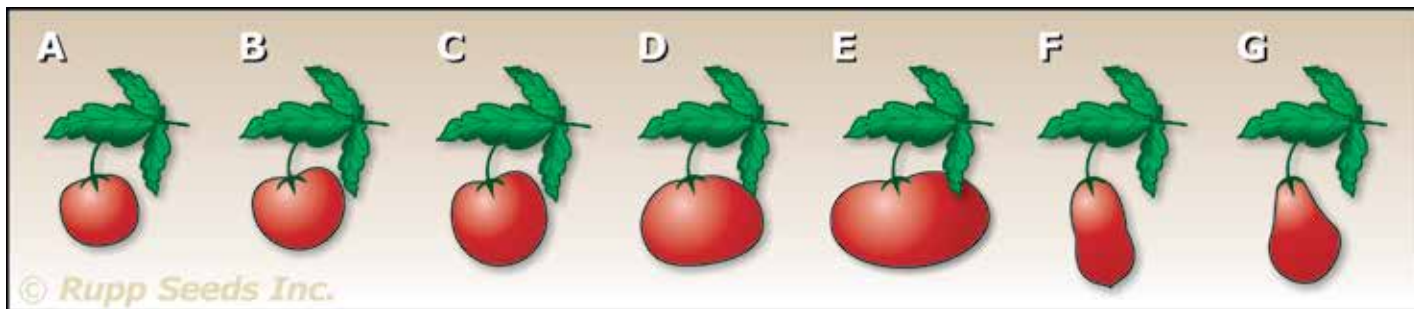
LEMON BOY PLUS

TOMATO		HOME GARDEN / BEDDING Hybrid							
▲		Days	Use	Weight ounces	Shoulders	Shape	Habit	Disease	Features
44015	<b>Beefmaster</b>	80	HG	12	GS	D	INDT	ASC, FR <sup>1</sup> , GLS, N, VW	Large, vigorous Beefsteak type.
44002	<b>Better Boy</b>	75	HG	8	GS	C	INDT	ASC, FR <sup>1</sup> , GLS, N, VW	Widely adapted.
44080	<b>Better Boy Plus</b> 🏠	77	FM/HG	8	GS	C	INDT	ASC, FCR, FR <sup>1</sup> , GLS, N, SW, ToMV <sup>2</sup> , VW	Better Boy Plus has all the great characteristics of the classic Better Boy, plus more flavor, disease resistance and adaptability.
44076	<b>Big Beef</b> 🏠	73	HG	9-10	GS	D	INDT	ASC, FR <sup>1,2</sup> , N, TMV, VW	AAS winner with an excellent name that will assure its place in the home garden. High yield, attractive.
44081	<b>Big Beef Plus</b> 🏠	75	FM/HG	9-10	GS	D	INDT	ASC, FCR, FR <sup>1,2</sup> , GLS, N, SW <sup>0</sup> , ToMV <sup>0,2</sup> , ToTV, VW <sup>1</sup>	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	<b>Big Boy</b> Burpee's	78	HG	12	GS	C	INDT		Large, popular home garden.
44006	<b>Celebrity</b>	72	FM, HG	8	GS	D	DT	ASC, FR <sup>1,2</sup> , GLS, N, TMV, VW	AAS winner. Excellent flavor.
★ 44082	<b>Celebrity Plus</b> 🏠	75	FM, HG	8	GS	D	DT	ASC, FR:0-1, GLS, N, SW:0, T-MV <sup>0,2</sup> , 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	<b>Early Girl</b> 🏠	60	HG	4-6	GS	B	INDT	VW	Popular, early home garden variety.
44098	<b>Early Girl Plus</b> 🏠	60	HG	4-6	GS	B	INDT	SW	One of the best-selling early varieties on the market just got better. Same great taste, with a great disease package. Enjoy more fruit per yield.
44102	<b>Husky Red</b>	67	BP, HG	5-7	UG	B	DWARF INDT	FR <sup>1</sup> , VW	Outstanding flavor and yield. Excellent in a container.
44009	<b>Lemon Boy</b>	72	HG	6	GS	C	INDT	ASC, FR <sup>1</sup> , GLS, N, VW	Lemon colored, sweet flavored.
44083	<b>Lemon Boy Plus</b> 🏠	70	FM/HG	7	GS	C	INDT	ASC, FCR, FR <sup>1,3</sup> , GLS, N, ToMV <sup>0,2</sup> , ToTV, VW <sup>1</sup>	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 GARDEN/BEDDING Hybrid						
	Priced per package		M=1,000 seeds			
	100 Seeds	500 Seeds	1M	5M	25M	100M
44015 <b>Beefmaster</b>	6.60	25.25	40.35	35.05	31.85	30.30
44002 <b>Better Boy</b>	9.40	36.15	57.80	50.25	45.65	43.45
44080 <b>Better Boy Plus</b>	9.40	36.15	57.80	50.25	45.65	43.45
44076 <b>Big Beef</b>	12.05	46.20	73.90	64.25	58.40	55.60
44081 <b>Big Beef Plus</b>	12.05	46.20	73.90	64.25	58.40	55.60
44003 <b>Big Boy</b> Burpee's	6.45	24.70	39.45	34.30	31.15	29.65
44006 <b>Celebrity</b>	11.65	44.80	71.65	62.30	56.60	53.90
44082 <b>Celebrity Plus</b>	11.65	44.80	71.65	62.30	56.60	53.90
44035 <b>Early Girl</b>	9.20	35.30	56.45	49.05	44.55	42.40

TOMATO HOME GARDEN/BEDDING Hybrid						
	Priced per package		M=1,000 seeds			
	100 Seeds	500 Seeds	1M	5M	25M	100M
44098 <b>Early Girl Plus</b>	9.20	35.30	56.45	49.05	44.55	42.40
44102 <b>Husky Red</b>	7.75	29.75	47.60	41.35	37.55	35.75
44009 <b>Lemon Boy</b>	12.65	48.55	77.65	67.50	61.35	58.40
44083 <b>Lemon Boy Plus</b>	12.65	48.55	77.65	67.50	61.35	58.40
44025 <b>Patio</b>	8.95	34.35	54.90	47.70	43.35	41.25
44095 <b>Pink Delicious</b>	12.75	48.90	78.20	68.00	61.80	58.85
44073 <b>Pink Girl</b>	8.00	30.70	49.05	42.65	38.75	36.90
44085 <b>RuBee Dawn</b>	26.00	99.95	166.55	151.40	144.15	137.25
44124 <b>RuBee Goddess</b>	26.00	99.95	166.55	151.40	144.15	137.25



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TOMATO		HOME GARDEN / BEDDING Hybrid							Pricing on page 131
Days	Use	Weight ounces	Shoulders	Shape	Habit	Disease	Features		
44025	<b>Patio</b>	70	HG	4	GS	D	DWARF	ASC, FR <sup>1</sup>	<i>Excellent container hybrid.</i>
44095	<b>Pink Delicious</b>	84	HG	8		E	INDT	ToMV <sup>0-2</sup> , GLS, VW <sup>1</sup>	<i>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.</i>
44073	<b>Pink Girl</b>	76	FM, HG	8	GS	D	INDT	ASC, FR <sup>1</sup> , GLS, VW	<i>A smooth pink hybrid for home garden or market.</i>
44085	<b>RuBee Dawn</b>	55	FM/HG	7	GS	C	INDT	ASC, FCR, Ff, FR:0-1, GLS, N, ToMV <sup>0-1</sup> , VW <sup>1</sup>	<i>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.</i>
44124	<b>RuBee Goddess</b>	60-65	FM/HG	7	GS	C	INDT	ASC, FCR, FR <sup>1-2</sup> , Ff A-E, ToMV <sup>0-1</sup> , VW <sup>1</sup>	<i>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.</i>

## GROWER PREFERRED ALL-STARS ★ TOMATOES

### LARGE ROUNDS

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

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

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

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

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

### 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.



**Dave Silveus**  
Vegetable Consultant

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W



PINK DELICIOUS



RUBEE DAWN



RUBEE GODDESS



BHN-871



BHN-964 ★



CAROLINA GOLD ★



FLORIDA 7514



GRAND MARSHALL



LAGUNA RED



MOUNTAIN MAN



RAMBLER



RED SNAPPER ★

TOMATO		FRESH MARKET Hybrid							Pricing on page 134
▲		Days	Use	Weight ounces	Shoulders	Shape	Habit	Disease	Features
44209	<b>BHN-871</b>	76	FM	10	UG	C	DT	FR, TMV, VW	A striking gold to tangerine colored globe shaped variety with firm, smooth fruit and improved taste and texture.
★	44214 <b>BHN-964</b>	76	FM, S	10	UG	C	DT	FR, TMV, VW	A variety with early blight tolerance. Possesses beautiful shoulders and excellent interior flesh quality. Sets well in the heat.
★	44126 <b>Carolina Gold</b>	75	HG, FM	10 - 12	GS	C	DT	FR <sup>1,2</sup> , VW	A yellow hybrid from Syngenta and North Carolina State University with very small blossom scar, tolerance to cracking and weather check.
44120	<b>Florida 47 R</b>	75	S	10	UG	C	DT	ASC, FR <sup>1,2</sup> , GLS, VW	A Seminis hybrid with exceptional firmness and fruit quality.
44159	<b>Florida 7514</b>	75	FM, S	10	UG	C	DT	BS, BW, FR <sup>1,2</sup> , GLS, VW	A University of Florida hybrid with excellent disease resistance, fruit qualities, yield, plus good crack resistance and great flavor.
44045	<b>Grand Marshall</b>	78	FM, S	9 - 10	UG	C	DT	ASC, FR <sup>1,2</sup> , 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	<b>Laguna Red</b>	70	FM, S	8 - 12	UG	C	DT	ASC, FR <sup>1,2</sup> , FCR, ToMV <sup>0,1</sup> , VW <sup>1</sup>	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	<b>Mountain Man</b>	70	FM	10-12	UG	C	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.
44123	<b>Rambler</b>	68-72	FM, S	8 - 12	UG	C	DT	ASC, FR <sup>1,3</sup> , FCR, GLS, SW, VW <sup>1</sup>	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.
★	44063 <b>Red Snapper</b>	70	FM, S	8 - 12	UG	C	DT	ASC, FR <sup>1,2</sup> , FCR, ToMV <sup>0,1</sup> , VW <sup>1</sup>	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.

Fresh Markets continued on the next page-->



ROADSTER ★



SAYBROOK



SKYWAY 687



STM2255 ↗

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CHOCOLATE SPRINKLES

**TOMATO** FRESH MARKET Hybrid

	Days	Use	Weight ounces	Shoulders	Shape	Habit	Disease	Features
★ 44048 <b>Roadster</b>	67	FM, S	8 - 12	UG	C	DT	ASC, FR <sup>1,2,3</sup> , TSWV, VW	Roadster is a hybrid tomato that produces early, large, red, and firm fruit with superior flavor. It is a determinate tomato that is widely adapted and resistant to some common diseases. It can be harvested green or ripe and is suitable for shorter growing seasons or late planting.
44057 <b>Saybrook</b>	80	FM, S	10	UG	C	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 <b>Skyway 687</b>	75	FM	11	UG	C	DT	FR <sup>1,3</sup> , 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 <b>STM2255</b>	70	FM, S	8 - 12	UG	C	DT	ASC, FCR, FR <sup>1,2</sup> , GLS, SW, TYLC, VW <sup>1</sup>	STM2255 is a very versatile and adaptable variety with high yield potential and good vine-ripe flavor. Fruit are an attractive red color, firm and have a good shelf-life. Can be used for both mature green and vine ripe markets. Plants are medium tall, have mid cover and benefit from pruning. Has potential to be used in multiple slots and regions across the eastern USA.

TOMATO FRESH MARKET Hybrid			M=1,000 seeds			
Priced per package	100 Seeds	500 Seeds				
Price per 1,000 seeds (M)	1M	5M	25M	100M		
44188P <b>BHN-602</b> Pelleted	17.25	66.25	110.40	100.35	95.55	91.00
44209P <b>BHN-871</b> Pelleted	17.25	66.25	110.40	100.35	95.55	91.00
44214P <b>BHN-964</b> Pelleted	17.25	66.25	110.40	100.35	95.55	91.00
44126P <b>Carolina Gold</b> Pelleted	13.45	51.65	86.05	78.20	74.45	70.90
44206 <b>Finishline</b>	12.80	49.15	81.90			
44120P <b>Florida 47 R</b> Pelleted	16.20	62.25	103.70	94.25	89.75	85.45
44159 <b>Florida 7514</b>	8.75	33.55	55.85	50.75	48.30	46.00
44045 <b>Grand Marshall</b>	18.65	71.70	119.45	108.55	103.35	98.40
44061P <b>Laguna Red</b> Pelleted	18.75	72.10	120.10	109.15	103.95	99.00
44071 <b>Mountain Man</b>	12.85	49.35	82.25	74.75	71.15	67.75

TOMATO FRESH MARKET Hybrid			M=1,000 seeds			
Priced per package	100 Seeds	500 Seeds				
Price per 1,000 seeds (M)	1M	5M	25M	100M		
44054P <b>Myrtle</b> Pellet	15.45	59.40	98.95	89.95	85.65	81.55
44123P <b>Rambler</b> Pelleted	21.00	80.70	134.50	122.25	116.40	110.85
44063P <b>Red Snapper</b> Pelleted	21.00	80.70	134.50	122.25	116.40	110.85
44048P <b>Roadster</b> Pelleted	18.80	72.30	120.45	109.50	104.25	99.25
44057P <b>Saybrook</b> Pelleted	17.30	66.40	110.65	100.55	95.75	91.15
44161P <b>Sebring</b> Pelleted	5.00	19.15	31.90	29.00	27.60	
44022P <b>Skyway 687</b> Pelleted	17.95	68.95	114.90	104.45	99.45	94.70
44086 <b>STM2255</b>	28.95	111.20	185.30	168.45	160.40	152.75

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

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GOLD SPARK



RUBY CRUSH



SUNSUGAR ★



SWEET GOLD



SWEET HEARTS



TIDY TREATS

TOMATO		CHERRY Hybrid					
Days	Weight ounces	Shape	Habit	Disease	Features		
44140	<b>BHN-268</b>	68	0.9	Globe	DT	FR <sup>2</sup> , 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	<b>Chocolate Sprinkles</b> 🌱	55	.4 - .5	Globe	INDT	FR <sup>1</sup> , 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	<b>Gold Spark</b> 🌱	65	.4 - .5	Grape	INDT	Ff, ToMV <sup>02</sup> , 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	<b>Husky Cherry Red</b>	65	1	Cherry	Dwarf Indt	FR <sup>1</sup> VW	High yields with controlled growth.
44165	<b>Red Grape</b>	68	.3 - .5	Grape	INDT		A superior flavored grape tomato from D. Palmer Seed with firm, excellent shaped red fruit.
44047	<b>Ruby Crush</b> 🌱	65	.4 - .5	Grape	DT	FCR, FR <sup>1,2</sup> , ToMV <sup>02</sup> , 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	<b>SunSugar</b>	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	<b>Super Sweet 100</b>	75	1	Cherry	INDT	FR <sup>1</sup> , TMV, VW	Popular cherry hybrid.
44125	<b>Sweet Gold</b>	65	.3 - .5	Cherry	INDT	FR <sup>1</sup> , ToMV <sup>01</sup>	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	<b>Sweet Hearts</b> 🌱	60	.4 - .5	Grape	INDT	Ff, FoI, ToMV <sup>02</sup>	Hybrid from Sakata with excellent crack resistance, shelf life, high Brix and yields. Sets under cooler conditions than most grapes.
44049	<b>Tidy Treats</b> 🌱	50-55	.2 - .4	Cherry	DT	FR, VW	Tons of fruit on a compact plant. Good in small-space gardens and containers.

	TOMATO CHERRY Hybrid					M=1,000 seeds		
	Priced per package	100	500					
		Seeds	Seeds	1M	5M	25M		
	Price per 1,000 seeds (M)							
44030	<b>Aligote</b>	32.40	107.50	179.15	170.90	162.75		
44140P	<b>BHN-268</b> <sup>Pelleted</sup>	47.30	157.05	261.70	249.20	237.30		
44059	<b>Chocolate Sprinkles</b>	25.45	84.40	140.65	134.20	127.80		
44087	<b>Gold Spark</b>	69.30	230.20	383.65	365.35	347.95		
44103	<b>Husky Cherry Red</b>	6.95	25.60	40.90	35.55	32.30		
44165	<b>Red Grape</b>	28.95	96.05	160.05	152.70	145.40		
44047	<b>Ruby Crush</b>	44.45	147.55	245.90	234.60	223.40		
44169	<b>SunSugar</b>	11.30	41.85	66.90	58.15	52.85		
44021	<b>Super Sweet 100</b>	9.20	33.90	54.20	47.10	42.80		
44125	<b>Sweet Gold</b>	6.95	25.70	41.10	35.70	32.45		
44199	<b>Sweet Hearts</b>	62.25	206.65	344.35	327.95	312.30		
44222	<b>Sweet Treats</b>	55.45	184.15	306.85	292.20	278.25		
44049	<b>Tidy Treats</b>	13.70	45.45	75.75	72.25	68.80		

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



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ARTISAN BUMBLE  
BEE MIX



FORONTI



TORERO



SYNERGY  
ROOTSTOCK

TOMATO		CHERRY Hybrid				
Days	Weight ounces	Shape	Habit	Disease	Features	
<i>Open Pollinated</i>						
44068	<b>Artisan Bumble Bee Mix</b>	70	.7 - .8	INDT	<i>A mix of 3 colors of Bumble Bee Cherry Tomatoes. Pink, Purple and Sunrise, which is yellow with red stripes. Excellent sweet and tangy flavor, 0.7-0.8 oz fruit.</i>	
44507	<b>Red Cherry</b>	72		INDT		

TOMATO		GREENHOUSE			
Use	Weight ounces	Shape	Disease	Features	
44093	<b>Foronti</b>	9 - 11	Round	Fol <sup>1,2</sup> , For, Va <sup>1</sup> , Vd <sup>1</sup> , ToMV <sup>0,2</sup>	<i>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.</i>
44020	<b>Torero</b>	Cold Greenhouse & Tunnels 8 - 9	Round	FF <sup>A,E</sup> , Fol <sup>0,1</sup> , For, Va <sup>0</sup> , Vd <sup>0</sup> , ToMV <sup>0,2</sup> , ToTV	<i>Large beef variety with excellent fruit quality and shelf life. Maintains an excellent fruit size even during summer.</i>
44198	<b>Arnold Rootstock</b>	Cold Greenhouse & Tunnels			<i>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.</i>
44180	<b>Multifort Rootstock</b>				<i>Provides excellent vigor for long seasons. Great pairing for varieties that require additional protection against Fusarium, adding miles to crops under pressure. High Resistance to: ToMV-Tomato Mosaic Virus; Fol:1-3 Fusarium oxysporum races 1-3; For-Fusarium oxysporum fsp. PI-Pyrenochaeta lycopersici (Corky Root); Va-Verticillium albo-altum; Vd-Verticillium dahliae; Ma-Meloidogyne arenaria; Mi-meloidogyne incognita; Mj-Meloidogyne javanica.</i>
44058	<b>Synergy Rootstock</b>				<i>Synergy is a rootstock with medium strong vigor and is well suited to balance high vigor scions. It is best suited for medium and short cycles and non-heated conditions. Well suited for specialty type tomatoes. High Resistance to: Ff:A-E / Fusarium wilt: 1-3 / FCR / ToMV: 0-2 / Va: 1 / VW: 1 / Intermediate Resistance to: Root knot nematode / Corky root.</i>

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

TOMATO GREENHOUSE		M=1,000 seeds		
Priced per package		100 Seeds	500 Seeds	
Price per 1,000 seeds (M)				1M
44026	<b>Caiman</b>	46.40	178.30	297.15
44093U	<b>Foronti</b> Untreated	126.40	486.10	810.15
44020U	<b>Torero</b> Untreated	123.40	474.45	790.75
44198	<b>Arnold Rootstock</b> Pelleted	62.55	240.45	400.75
44180U	<b>Multifort Rootstock</b> Untreated	44.85	172.50	287.45
44058	<b>Synergy Rootstock</b>	50.00	192.15	320.25

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

Other Tomatoes & Cucs for greenhouse production are available. Ask us.

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BHN-768



INCA NEW



MARIANA ★



MONTICELLO



SAN MARZANO

ORDERS  
OVER \$350  
ARE SHIPPED  
FREE!

TOMATO		PROCESSING / SALADETTE Hybrid						
		Days	Use	Weight ounces	Shape	Habit	Disease	Features
44202	<b>BHN-768</b>	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	<b>BHN-1045</b>	75	FM, S	4	F	DT	FR <sup>1,2,3</sup> N, SW, TYLC, VW	BHN1045 has uniform large fruit and a deep blocky shape. A strong determinate plant with an excellent disease package. An all-around improved BHN410.
<span style="color: red; font-weight: bold;">NEW</span>	44555 <b>Inca</b>	65-70	FM, S	5	F	DT	ASC, FOL <sup>1,2,3</sup> , VW	Inca is a blocky, elongated-shaped hybrid with large and extra large fruit combined with early maturity. Fruit is deep red, firm, and has a good shelf-life. The plants are medium compact, have mid cover and can set more continuously than other types in this class.
<span style="color: gold; font-weight: bold;">★</span>	44176 <b>Mariana</b>	74	FM	4-5	F	DT	ASC, FR <sup>1,2</sup> , N, VW	A blocky, Roma type with thick walls and very good fruit color. Excellent firmness and shelf life.
	44224 <b>Monticello</b>	74	FM	4-5	F	DT	ASC, FR <sup>1,2</sup> , N, VW	High disease package. Suitable for the northern and central growing regions of the Eastern U.S.
	44091 <b>San Marzano</b>	61	FM	3.8	F	INDT		A step above your typical Roma with high yields. Classic Italian flavor with an extra kick! Great in sauces and baked dishes.

TOMATO		OP	
		Days	Features
44510	<b>Ace 55 VF</b>	80	Disease-resistant Ace strain.
44506	<b>Beefsteak</b>	80	Also known as Red Ponderosa or Crimson Cushion. Fruits are large, flattened, and irregular shaped.
44529	<b>Delicious</b>	77	Large 1 lb. fruit with overall high quality. Nearly solid interiors with very small seed cavity.
44502	<b>Jubilee Golden</b>	80	AAS winner. Fruit is large, deep orange-yellow color, meaty with a mild flavor.
44504	<b>Marglobe</b>	72	A solid, mild fleshed tomato that is suitable for home garden and processing.
44526	<b>Red Pear</b>	80	Two-inch long fruit with a distinct elongated neck that is unique to this variety.
44508	<b>Roma VF</b>	78	A heavy-yielding, processing tomato for the home gardener. Vines are compact, pear shaped fruit.
44509	<b>Rutgers</b>	75	Bright red, medium large and smooth, globed-shaped fruit. A popular garden variety.
44525	<b>Yellow Pear</b>	75	Mild sweet flavor, uniform fruit 1 1/2 inches long.

TOMATO PROCESSING/SALADETTE Hybrid						
Priced per package Price per 1,000 seeds (M)	100 Seeds	500 Seeds	1M	5M	25M	100M
			44062P <b>BHN-1045</b> Pelleted	17.25	66.25	110.40
44555 <b>Inca</b>	15.60	59.90	99.80	90.70	86.35	82.20
44176P <b>Mariana</b> Primed Pelleted	13.65	52.35	87.25	79.30	75.50	71.90
44224P <b>Monticello</b> Pelleted	11.65	44.80	74.65	67.85	64.60	61.50
44091 <b>San Marzano</b>	14.30	55.00	91.65	83.30	79.30	75.50
<b>Special Value Priced:</b> Roma Types for either Bedding Plants or Market. Excellent substitute for either Roma Hybrid or Hybrid 882						
44202P <b>BHN-768</b> Pelleted	4.80	18.45	30.70	27.90	26.55	25.25

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

TOMATO OP					
Priced per package	1/2 oz.	1 oz.	4 oz.	1#	
					44510 <b>Ace 55 VF</b>
44506 <b>Beefsteak</b>	7.85	11.75	40.50	112.50	
44529U <b>Delicious</b> Untreated	8.35	12.50	42.95	119.20	
44502 <b>Jubilee Golden</b>	10.15	15.25	52.50	145.70	
44504 <b>Marglobe</b>	8.50	12.75	43.95	122.00	
44508 <b>Roma VF</b>	7.85	11.75	40.50	112.50	
44509 <b>Rutgers</b>	10.05	15.05	51.80	143.85	
44526 <b>Red Pear</b>	10.95	16.45	56.70	157.50	
44525 <b>Yellow Pear</b>	10.95	16.45	56.70	157.50	

TOMATO		HEIRLOOM				
▲	Days	Flesh Color	Use	Fruit Size	Features	
44723	<b>Amish Paste</b>	85	Red	HG	8 oz.	<i>An Amish heirloom variety with paste type fruit and outstanding sweet flavor. Fruit are oblong oxheart shaped.</i>
44701	<b>Brandywine, Pink</b>	85	Pink	FM, HG	10 - 16 oz.	<i>A tomato from the 1800's known for being the standard setter for flavor. Potato leafed, indeterminate with pinkish red fruit.</i>
44712	<b>Cherokee Purple</b>	80	Burgundy	FM, HG	10 - 12 oz.	<i>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.</i>
44733	<b>German Pink</b>	85	Pink	FM, HG	12 - 24 oz.	<i>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.</i>
44722	<b>Green Zebra</b>	75	Green	FM, HG	3 oz.	<i>A delicious salad tomato with flavorful flesh. A sweet and zingy, tasty treat.</i>
44734	<b>Hillbilly Potato Leaf</b>	85	Yellow fruit red stripes	HG	1 lb.	<i>Absolutely gorgeous slicing tomato that is similar to Mr. Stripey. Sweet 4-6" flattened fruits.</i>
44705	<b>Mortgage Lifter</b>	80	Pink	HG	1 lb.	<i>From the "Great Depression", an indeterminate vined variety with large, very firm, pink fruit with good flavor. Productive.</i>
44709	<b>Old German</b>	75	Yellow Orange	HG	1 lb.	<i>Large, yellow fruit with orange centers. Very sweet, excellent flavor.</i>
44725	<b>Prudens Purple</b>	75	Dark Pink	FM, HG	10 - 16 oz.	<i>Large, dark pink fruit that mature quite early, with delicious flavor and good production. Has indeterminate potato leaved vines.</i>
44737	<b>Red Brandywine</b>	85	Red	FM, HG	10 - 16 oz.	<i>The red version of Brandywine originating from the late 1800's. Very productive, excellent taste. Indeterminate.</i>

TOMATO HEIRLOOM		M=1,000 seeds				
▲	Priced per package	250 Seeds	500 Seeds*	1M	5M	10M
	Price per 1,000 seeds (M)					
44723	<b>Amish Paste</b>	6.75	8.20	10.75	7.95	6.50
44701	<b>Brandywine, Pink</b>	6.75	8.20	10.75	7.95	6.50
44712	<b>Cherokee Purple</b>	6.75	8.20	10.75	7.95	6.50
44704	<b>Currant Yellow</b>	6.75	8.20	10.75	7.95	6.50
44733	<b>German Pink</b>	6.75	8.20	10.75	7.95	6.50
44722	<b>Green Zebra</b>	6.75	8.20	10.75	7.95	6.50
44734	<b>Hillbilly Potato Leaf</b>	6.75	8.20	10.75	7.95	6.50
44705	<b>Mortgage Lifter</b>	6.75	8.20	10.75	7.95	6.50
44709	<b>Old German</b>	6.75	8.20	10.75	7.95	6.50
44726	<b>Persimmon</b>	6.75	8.20	10.75	7.95	6.50
44725	<b>Prudens Purple</b>	6.75	8.20	10.75	7.95	6.50
44737	<b>Red Brandywine</b>	6.75	8.20	10.75	7.95	6.50

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

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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.

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

TURNIPS / RUTABAGA		
▲	Days	Features
45006 <b>Alamo</b> <sup>F1</sup>	48	50% higher yielding than the standards with excellent flavor. Taste comparable with standard turnip greens.
45003 <b>All-Top</b> <sup>F1</sup>	50	A hybrid for greens only. Dark green leaves with many branches for exceptional yields.
45002 <b>Just Right</b> <sup>F1</sup>	70	A very large white type turnip with excellent uniformity. Fall to winter cold tolerance.
45903 <b>Laurentian</b> <sup>Rutabaga</sup>	90	A dependable, yellow-fleshed rutabaga for storage and shipping. Selected for its sweet flavor and small necks.
45501 <b>Purple Top White Globe</b>	57	Smooth, globe-shaped, purple topped with white globe beneath 5 - 6" fruit with white, fine grained flesh.
45503 <b>Seven Top</b>	60	A turnip grown for greens only.
45502 <b>Shogoin</b>	60	A dual purpose turnip grown for tops and large roots.
45001 <b>Tokyo Cross</b> <sup>F1</sup>	35	A very early, perfect globe shaped root. Can be harvested from 2 - 6" without risk of getting pithy.
45004 <b>Topper</b> <sup>F1</sup>	60	A heavy yielding Seven Top type with thick hairless leaves that are less lobed than Seven Top.
45507 <b>White Egg</b>	50	A 3 - 4" egg shaped, sweet tender root popular both for the home garden or market.
49011 <b>White Lady</b> <sup>F1</sup>	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		Priced per pound in these package sizes		
	1 oz.	4 oz.	1#	5#	50#
45006 <b>Alamo</b>	14.15	46.30	129.50	129.00	
45003 <b>All Top</b>	10.65	34.90	97.50	97.00	
45002 <b>Just Right</b>	17.80	61.85	172.95	171.95	
45903 <b>Laurentian</b> <sup>Rutabaga</sup>	4.00	13.75	38.45	37.45	
45501U <b>Purple Top White Globe</b> <sup>Untreated</sup>	6.55	16.00	15.50	15.00	
45503U <b>Seven Top</b> <sup>Untreated</sup>	6.55	16.00	15.50	15.00	
45502U <b>Shogoin</b> <sup>Untreated</sup>	7.45	18.25	17.75	17.25	
45001 <b>Tokyo Cross</b>	23.95	83.20	232.70	231.70	
45004 <b>Topper</b>	13.60	44.55	124.50	124.00	
45507U <b>White Egg</b> <sup>Untreated</sup>	7.45	18.25	17.75	17.25	
49011 <b>White Lady</b>	21.00	68.85	192.50	192.00	

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ESTRELLA  pg. 141

# 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



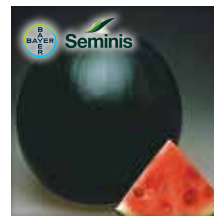
ESTRELLA ★



JAMBOREE



SANGRIA



JADE STAR



YELLOW DOLL

WATERMELON		LARGE Hybrid							
▲		Days	Shape	Weight pounds	Rind Type	Flesh Color	Seed Size	Disease	Features
46124	<b>Compadre</b>	82	Oval	20 - 25	Crimson Sweet	Bright Red		F <sup>1,2</sup> , GSB	A D. Palmer hybrid with a strong vine, high yields and a good disease package.
★ 46041	<b>Estrella</b>	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	<b>Jamboree</b>	88	Elongated	25 - 27	Allsweet	Deep Red		A, F	An excellent choice when size commands a premium! Produces large, very uniform fruit.
46030	<b>Sangria</b>	85	Elongated	18 - 22	Allsweet	Bright Red	Large	A, F	Good field performance with excellent taste.
46009	<b>Starbrite</b>	85	Oblong	22 - 31	Dark Green / Light Green Stripes	Bright Red		A <sup>1</sup> , F	A Seminis high yielding hybrid with an oblong shaped fruit. Rind is tough and resilient for long distance shipping.

WATERMELON		ICEBOX							
▲		Days	Shape	Weight pounds	Rind Type	Flesh Color	Seed Size	Disease	Features
46051	<b>Jade Star</b> <small>Pata Negra</small>	80	Round Oval	15	Dark Green / Faint Stripes	Intense Red	Small	F <sup>1</sup>	An improved Sugar Baby type hybrid with brighter, sweeter flesh and a better vine. For fresh market.
46005	<b>Yellow Doll</b>	68	Oval	5 - 7	Medium Green / Dark Stripes	Yellow	Small		Unusual, very sweet home garden hybrid. Crisp flesh.

WATERMELON LARGE Hybrid		M=1,000 seeds			
Priced per package		250 Seeds			
Price per 1,000 seeds (M)		1M	5M	10M*	
46124	<b>Compadre</b>	26.65	68.75	63.75	58.75
46041	<b>Estrella</b>	43.95	113.35	108.35	103.35
46088	<b>Jamboree</b>	43.10	111.20	106.20	101.20
46030	<b>Sangria</b>	46.25	119.25	114.25	109.25
46009	<b>Starbrite</b>	31.40	81.00	76.00	71.00
46072	<b>StarGazer</b>	36.05	93.00	88.00	83.00

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

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

WATERMELON ICEBOX		M=1,000 seeds			
Priced per package		250 Seeds			
Price per 1,000 seeds (M)		1M	5M	10M*	
46051	<b>Jade Star</b>	38.75	99.25	98.25	97.25
46005	<b>Yellow Doll</b>	42.90	109.90	108.90	107.90

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

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

**\*REQUIRED for all watermelon prior to shipping.**



SWEET DAWN ★ pg. 143

# 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 pollinizer 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 pollinizer, then direct seeding should be delayed a week to ten days. The diploid icebox pollinizer 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 pollinizer 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 pollinizers result in high early yields; standard varieties used as pollinizers 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 pollinizer variety to the seedless variety (seedless watermelons do not produce pollen). The pollinizer 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.





AMARILLO



BOLD RULER



DARK KNIGHT



EL CAPITAN ★



EXCLAMATION



FASCINATION ★



JET SKI **NEW**



JOY RIDE



MELODY



ORANGE CRISP



SWEET DAWN ★

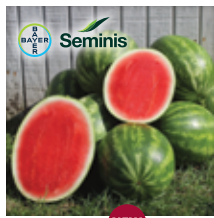


SWEET GEM

**WATERMELON** **TRIPLOID** Hybrid Pricing on page 144

	Days	Shape	Weight pounds	Rind Type	Flesh Color	Features
46093 <b>Amarillo</b>	82	Globe	13 - 15	Tiger Stripe	Yellow	A Syngenta melon with deep yellow flesh and less tendency to hollow heart.
46001 <b>Bold Ruler</b>	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 <b>Dark Knight</b>	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 <b>El Capitan</b>	85-90	Blocky / Oval	16 - 20	Wide dark green stripes	Deep Red	A triploid watermelon with an attractive darker Crimson Sweet rind pattern. This variety has shown excellent yield potential as well as extended shipping and field holding ability. Uniform, blocky-shaped fruit on vigorous vines. Deep red, firm flesh, small pip size and excellent flavor.
46013 <b>Exclamation</b>	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 <b>Fascination</b>	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.
<b>NEW</b> 46100 <b>Jet Ski</b>	78	Oblong	14-16	Mottle Stripe	Dark Red	Jet Ski is an early, 45 count, mottle stripe watermelon with high average degrees brix and has shown excellent quality with deep red interior color.
46026 <b>Joy Ride</b>	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 <b>Melody</b>	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 <b>Orange Crisp</b>	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!
★ 46102 <b>Sweet Dawn</b>	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.
46008 <b>Sweet Gem</b>	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.

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



TAILGATE **NEW**



UNBRIDLED



VIRTUE **NEW**



YELLOW BUTTERCUP



SIRIUS



WILD CARD PLUS

**WATERMELON**

**TRIPLOID Hybrid**

Pricing on page 144

	Days	Shape	Weight pounds	Rind Type	Flesh Color	Features
<b>NEW</b> 46039 <b>Tailgate</b>	83	Oblong	17-21	Dark mottle stripe	Dark Red	Adaptable across regions with excellent quality. Expect a vigorous plant with good vine coverage and great flesh firmness with high average Degrees Brix potential.
46018 <b>Unbridled</b>	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.
<b>NEW</b> 46153 <b>Virtue</b>	85	Oval	16 - 20	Medium Green Background / Dark Green Stripes	Bright red	Virtue has shown strong early season performance while producing good yields and taste.
46021 <b>Yellow Buttercup</b>	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.
<b>Personal Size</b>						
46045 <b>Sirius</b>	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.
<b>Pollenizers</b>						
46103 <b>Ace Plus</b>		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 <b>Wild Card Plus</b>		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 TRIPLOID Hybrid**

M=1,000 seeds

	Priced per package		Price per 1,000 seeds (M)		
	100 Seeds	500 Seeds	1M	5M	10M*
46093 <b>Amarillo</b> <sup>Yellow</sup>	67.35	269.25	460.20	452.70	447.70
46001 <b>Bold Ruler</b>	35.55	142.10	242.90	235.40	230.40
46049 <b>Dark Knight</b>	73.65	294.55	503.50	496.00	491.00
46052 <b>El Capitan</b>	48.20	192.80	329.50	322.00	317.00
46013 <b>Exclamation</b>	52.65	210.50	359.75	352.25	347.25
46140 <b>Fascination</b>	58.50	234.00	400.00	392.50	387.50
46100 <b>Jet Ski</b> <sup>F400</sup>	40.25	160.90	275.00	267.50	262.50
46026 <b>Joy Ride</b>	46.30	185.10	316.35	308.85	303.85
46134 <b>Melody</b>	57.90	231.55	395.80	388.30	383.30
46007 <b>Orange Crisp</b>	51.70	206.80	353.45	345.95	340.95
46029 <b>Road Trip</b>	43.95	175.75	300.35	292.85	287.85

**WATERMELON TRIPLOID Hybrid**

M=1,000 seeds

	Priced per package		Price per 1,000 seeds (M)		
	100 Seeds	500 Seeds	1M	5M	10M*
46102 <b>Sweet Dawn</b>	60.45	241.80	413.25	405.75	400.75
46008 <b>Sweet Gem</b>	72.25	288.95	493.85	486.35	481.35
46039 <b>Tailgate</b> <sup>F400</sup>	47.50	190.00	324.75	317.25	312.25
46018 <b>Unbridled</b>	39.95	159.65	272.90	265.40	260.40
46153 <b>Virtue</b>	61.05	244.15	417.30	409.80	404.80
46021 <b>Yellow Buttercup</b>	62.95	251.65	430.10	422.60	417.60
<b>Personal Size</b>					
46045 <b>Sirius</b>	47.35	189.25	323.45	315.95	310.95
<b>Pollenizers</b>					
46103 <b>Ace Plus</b> <sup>F300</sup>	33.75	135.00	230.70	223.20	218.20
46109 <b>Wild Card Plus</b> <sup>F300</sup>	36.80	147.15	251.50	244.00	239.00

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

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# GROWER PREFERRED ALL-STARS ★ WATERMELON

## LARGE SEEDED

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

## TRIPLOID

**El Capitan** has an attractive rind that features wide, dark green stripes. Growers say that it produces good yields, has extended holding ability, and has excellent flavor. Whether you're a shipper or a farm market, you will want to add El Capitan to your farm.



**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.

*Phil Ramsey*  
Vegetable Consultant

WATERMELON		OP						
		Days	Shape	Weight pounds	Rind Type	Flesh Color	Seed Size	Features
46501	<b>Allsweet</b>	90	Elongated / Oval	25 - 30	Medium Green / Thin Stripes	Bright Red	Small	Excellent fresh market variety. Firm flesh.
46502	<b>Charleston Grey</b>	90	Elongated / Oval	25 - 35	Light Green / Dark Veins	Medium Red	Large	A popular heirloom variety for the home garden that is especially popular in the South.
46504	<b>Crimson Sweet</b>	85	Blocky	15 - 30	Light and Dark Stripes	Brilliant Red	Medium	Popular variety for garden, market or shipping.
46507	<b>Jubilee Improved</b>	95	Elongated / Oval	25 - 35	Light Green / Dark Stripes	Medium Red	Large	Excellent late shipper.
46533	<b>Moon &amp; Stars</b>	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	<b>Sugar Baby</b>	80	Round	8 - 10	Dark Green	Deep Red	Small	Popular home garden. Also works well as pollenizer for triploid hybrids.

WATERMELON OP		Priced per package		
		1 oz.	4 oz.	1#
46501	<b>Allsweet</b>	6.25	21.70	57.75
46502	<b>Charleston Grey</b>	7.05	24.45	65.15
46504	<b>Crimson Sweet</b>	6.25	21.70	57.75
46507	<b>Jubilee Improved</b>	6.75	23.35	62.20
46533	<b>Moon &amp; Stars</b>	6.55	22.65	60.40
46509	<b>Sugar Baby</b>	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 2024. **The best rates are available before 12/31/2023.** See page 155 for all of the details on how to take advantage of this payment option. **JOHN DEERE FINANCIAL**



RUPP KNIT HAT



RUPP HOODIE



RUPP CAMO CAP



RUPP KHAKI & BLACK CAP

LIKE US ON FACEBOOK

www.facebook.com/ruppseedsinc/



## RUPP CLOTHING

	Regular Sizes	Features
PHAT.KNIT.1 <b>Rupp Knit Hat</b>	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 <b>Rupp Hoodie Sweatshirt</b>	S - 3XL	Charcoal gray pull-over hoodie sweatshirt with the a large Rupp logo on the front.
PHAT.SOLID.G3 <b>Rupp Camouflage Solid Cap</b>	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 <b>Rupp Khaki &amp; Black Mesh Cap</b>	One size fits all	This mesh back cap features a Rupp logo patch on the front and has our "See What Good Yields™" tagline on the back.

Please allow 3-4 weeks for delivery on clothing.

## RUPP CLOTHING

## RECOMMENDED SIZE CHART

	XS	S	M	L	XL	2XL	3XL	4XL	5XL	6XL
<b>Men's Size</b>	30-32	34-36	38-40	42-44	46-48	50-52	54-56	58-60	62-64	66-68
<b>Ladies Size</b>	2-4	6-8	10-12	14-16	18-20	22-24	26-28	30-32		
<b>Size Code**</b>	X	S	M	L	1	2	3	4	5	6

\*\* Use item number plus size code. Add a 'T' to the end for tall sizes.

## CLOTHING

	Size	XS	S	M	L	XL	2XL	3XL	4XL	5XL	6XL
	Size codes	X	S	M	L	1	2	3	4	5	6
PJKT.SWT.HD <b>Rupp Hoodie Sweatshirt</b>			37.50	37.50	37.50	37.50	40.00	40.00			
PHAT.KNIT.1 <b>Rupp Knit Hat</b>		15.00									
PHAT.SOLID.G3 <b>Rupp Camouflage Cap</b>		15.00									
PHAT.MESH.G5 <b>Rupp Khaki &amp; Black Mesh cap</b>		15.00									

Prices include shipping. Allow 3-4 weeks for delivery.

Cash discounts are not available on clothing.

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BENTLEY 500 PACK



BENTLEY 250 PACK



1 OZ. PACKET



4 OZ. PACKET



BIN MARKERS

### BENTLEY PACKET STANDS

	Description
VP500A <b>500 pack Assorted - V,F,H</b>	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 <b>500 pack Vegetables</b>	500 pre-priced (\$1.99) packets of assorted vegetable seeds. 48 different varieties. Corrugated floor display.
VP500F <b>500 pack Flowers</b>	500 pre-priced (\$1.99) packets of assorted flower seeds. 48 different varieties. Corrugated floor display.
VP250H <b>250 pack Herbs</b>	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, 2024. Thirty day lead time is needed. Non-returnable! Pricing includes shipping charges.

### BENTLEY PACKET STANDS

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

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, 2024.

### POINT OF SALE

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

### PLANTER PLATES

	Priced per plate	1 plate
B <b>John Deere Plates</b>		75.00
C <b>IH Plates</b>		75.00
F <b>Filler Ring</b>		75.00

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

### POPPING CORN

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

### POPPING CORN

	Priced per case	Case
	Priced per 50 pounds (includes shipping)	50#
VPOP.SUNBURST <b>Golden Sunburst Popping Corn</b>	93.50	117.50
VPOP.WHDELIGHT <b>White Delight Popping Corn</b>		120.00
A case consists of 15, 2# packages		
Please Note: Prices include shipping.		



# PLANTING GUIDE

Seeds per Pound	Seeding Rate			Seed or Plant Spacing			Recommended Soil Temperature	Days to Germination	
	per Acre by Weight	per Acre in 1000s	Seeds per 1000 foot of Row	In Row	Between Rows	Depth			
<b>Asparagus</b>	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
<b>Beans Bush Green</b>	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
<b>Beet</b>	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
<b>Broccoli</b>	80,000 - 128,000	2.9 - 3 oz	15.2 - 22.7 M	1,000	12"	24 - 36"	.3 - .5"	60 - 75°F	6 - 10
<b>Brussels Sprouts</b>	80,000 - 128,000	1 - 1.4 oz	7.6 M	500	24"	36"	.5 - 1"	60 - 75°F	6 - 10
<b>Cabbage</b>	107,000 - 128,000	1.9 - 2.2 oz	15.2 M	1,000	12"	36"	.3 - .5"	50 - 60°F	6 - 10
<b>Cantaloupe</b>	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
<b>Carrots</b>	320,000 - 410,000	2 - 2.1 lbs	653.2 - 871 M	24,000	.5"	15 - 20"	.5"	50 - 85°F	8 - 12
<b>Cauliflower</b>	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
<b>Celery</b>	960,000 - 1,417,500	0.5 - 0.8 oz	45.4 M	2,000	6"	24"	.1"	65 - 70°F	21 - 25
<b>Collards</b>	90,700 - 144,000	1.3 - 1.8 oz	10.1 - 12.1 M	667 - 800	15 - 18"	36"	.3 - .5"	60 - 75°F	6 - 10
<b>Cucumber</b>	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
<b>Eggplant</b>	96,000 - 110,000	1 - 1 oz	5.5 - 6.9 M	600 - 750	16 - 20"	60"	.2 - .5"	85 - 90°F	10 - 14
<b>Endive</b>	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
<b>Kale</b>	124,000 - 136,000	1.9 - 2.9 oz	15.2 - 24.2 M	667 - 800	15 - 18"	18 - 24"	.25 - .5"	60 - 75°F	6 - 10
<b>Kohlrabi</b>	123,000 - 144,000	1.9 - 2.7 oz	15.2 - 24.2 M	667 - 800	15 - 18"	18 - 24"	.25 - .5"	60 - 75°F	6 - 10
<b>Leeks</b>	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
<b>Lettuce</b>	364,000 - 432,000	3 - 3.4 oz	68.1 - 90.8 M	3,000	4"	18 - 24"	.3 - .5"	50 - 75°F	2 - 7
<b>Mustard</b>	204,000 - 272,000	4 - 5.3 oz	68.1 M	1,500	8"	12"	.3"	60 - 75°F	5 - 8
<b>Okra</b>	7,800 - 8,000	1.1 - 1.3 lbs	8.7 - 10.1 M	667	18"	36 - 42"	1"	65 - 95°F	7 - 18
<b>Onion</b>	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
<b>Parsley</b>	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
<b>Parsnips</b>	87,000 - 120,000	1.4 - 1.5 lbs	121 - 181.5 M	4,000	3"	12 - 18"	.3 - .5"	32 - 75°F	18 - 25
<b>Peas</b>	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
<b>Pepper</b> <small>Twin row on plastic</small>	64,000 - 76,000	2.2 - 2.6 oz	9.1 - 12.1 M	500 - 667	18 - 24"	12"	.3 - .5"	65 - 86°F	10 - 14
<b>Pumpkin</b>	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
<b>Radish</b>	45,000 - 48,000	12.1 - 15.1 lbs	544.4 - 725.8 M	12,000	1"	9 - 12"	.5 - .8"	60 - 85°F	5 - 8
<b>Spinach</b>	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
<b>Squash Summer</b>	2,500 - 6,000	1.7 - 1.8 lbs	4.6 - 10.1 M	500 - 667	18 - 24"	36 - 60"	.5 - .75"	70 - 80°F	7 - 10
<b>Squash Winter</b>	3,000 - 4,000	1 - 1.3 lbs	2.9 - 5.1 M	500 - 667	18 - 24"	72 - 96"	.5 - .75"	70 - 80°F	7 - 10
<b>Sweet Corn</b>	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
<b>Tomato</b>	140,000 - 165,000	0.8 - 0.8 oz	7.6 M	667	18"	48"	.25 - .5"	60 - 75°F	7 - 10
<b>Turnip</b>	173,000 - 192,000	1.4 - 1.6 lbs	272.2 M	6,000	2"	12"	.3"	60 - 75°F	6 - 10
<b>Watermelon Large</b>	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
<b>Watermelon Small</b>	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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## GERMINATION CHART PERCENTAGE OF NORMAL VEGETABLE SEEDLINGS

PRODUCED AT DIFFERENT TEMPERATURES\* \*\*

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

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

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

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

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



## THE IMPORTANCE OF SOIL TESTING

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

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

Second, testing can help identify any potential concerns with your soil. For example, a soil test could reveal problems with your soil's pH, salinity, or detect other concerns that could impact plant growth. By identifying these problems early on, you can take action to give your vegetables the best opportunity to thrive.

Third, soil testing can help to improve the quality of your vegetables. Plants that are grown in nutrient-rich soil are more likely to be healthy and productive. Healthy plants are also more resistant to pests and diseases.

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

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

[www.ruppseeds.com/PSUsoil](http://www.ruppseeds.com/PSUsoil)  
Penn State University offers soil test recommendations





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

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

## Letter of Guarantee

To whom it may concern,

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

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

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

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

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

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

  
\_\_\_\_\_  
Philip Rupp  
President

October 1, 2023

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# United States Department of Agriculture

This is to verify that

**Rupp Seeds, Inc.**

**Pettisville, Ohio**

has successfully met USDA's acceptance criteria of the voluntary

**USDA Good Agricultural Practices Audit**

***House Packing Facility, Storage and Transportation***

***Various Seeds***

A handwritten signature in black ink, appearing to read "Donna D. Burk-Ford".

**Chief, Audit Services Branch**

**Audit ID: 42525**

**9/27/2022**

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



# NOTICE TO BUYERS

## VARIETY DESCRIPTIONS

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

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

## LIMITATION OF WARRANTY AND LIABILITY

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

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

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

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

User will communicate the risks of use of untreated seed prior to User's sale or transfer of the Seed and will execute the same or similar agreement with any third party. USER WILL INDEMNIFY, DEFEND AND HOLD RUPP SEEDS HARMLESS FROM ANY AND ALL CLAIMS BY THIRD PARTIES ARISING FROM THE PERFORMANCE OF UNTREATED SEED.

**Exclusive Remedy:** User's Exclusive Remedy and Rupp Seeds' sole liability for any claim or loss, including, without limitation, claims resulting from breach of warranty, breach of contract, tort, fiduciary obligation, strict liability, or negligence resulting from the use of the Seed is limited to a refund of the price paid for the Seed and will not include incidental, consequential, or exemplary damages, such as loss of yield or lost profits. User agrees that Rupp Seeds' refund of the price paid for the Seed will not cause this Agreement to fail of its essential purpose. Allocation of risk between Rupp Seeds and User is reflected in the purchase price.

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

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

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

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

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

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

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

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

# TERMS AND PAYMENT INFORMATION

## PAYING FOR YOUR ORDER

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

### Credit Card

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

### Check

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

*If paying by check, please allow 7-10 days for your check to clear the bank before your seed will be shipped.*

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

### ACH/Electronic Check

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

### Open Accounts

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

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

### Invoice Terms

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

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

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

### Seed Financing

We offer a variety of financing programs that provide post-harvest payment flexibility. Our premier program features 0% interest where payment isn't due until December 2024. Check the Financing Programs section for more details.

## CASH DISCOUNT PROGRAM

Rupp Seeds offers a cash discount program as an incentive for timely payment of your seed order or invoice. Savings are automatically applied, and total savings are based on the amount paid and the postmark date on your envelope. **Cash discounts are available for orders over \$350.00.**

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

August . . . . .	10.0%	January . . . . .	5.0%
September . . . . .	9.0%	February . . . . .	4.0%
October . . . . .	8.0%	March . . . . .	3.0%
November . . . . .	7.0%	April . . . . .	2.0%
December . . . . .	6.0%		

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

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

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

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

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

**Please note the following details about cash discounts:**

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

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

## POST HARVEST FINANCING PROGRAMS

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

Our premier post-harvest financing program features 0% interest until December 2024 on orders placed before December 31, 2023.

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 2024. Here's a list of all the programs planned for the 2024 sales season:

Availability	Program
Through December 2023	0% Fixed
For January & February '24	3.9% Fixed
For March & April '24	Prime* + 1%
For May through August '24	Prime* + 6.1%

\*\* These are variable rate programs based on the prime rate, which was 8.5% as of 9/1/23.

Please note the following details about JD financing programs:

- Initial order for the season must total \$1,000 or more.
- Orders must be placed before December 31, 2023, 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](http://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.

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

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

We reserve the right to ship your order via the most economical carrier, so in addition to UPS we also utilize our own delivery trucks, truck line and the US Postal Service.

**Free Shipping!**  
on orders  
over \$350.00

## PICKING UP YOUR ORDER

If you would like to pick up your order, we require 24 hour advanced notice.

## ON RECEIPT OF YOUR ORDER:

### INSPECT YOUR SHIPMENT

Please review the packing slip and contents upon receipt to confirm you have everything you need before planting time.

### DAMAGED SHIPMENTS

A small percent of shipments may get damaged during transit. If you receive a damaged shipment, please be prepared to take action so you can receive proper credit or replacement. Our Customer Service department will file a claim with the shipping company and will need some information from you.

Here are guidelines to keep in mind and actions you should take to help expedite a claim.

- Take time when unloading. Count the packages and pieces received and look for any damaged shipping containers and packages.
- Tell the driver to note any shortage or damage on all copies of the freight bill, take pictures, and to sign their full name clearly.
- Immediately contact our office at 800-700-1199 and fax a copy of the freight bill along with a description of the damage, along with any pictures of other documents to 419-337-5491, or email it to us at orders@ruppseeds.com or mail it to us within 10 days.
- Include a note identifying the name and quantity of each variety that is missing or damaged.

## RETURNS

Rupp Seeds has no control over the handling and care of the seed once it leaves our warehouse. In order to ensure quality seed for all of our customers, **we will not accept any seed returns** except in situations where an error has been made in fulfilling your order. In the event of an error, contact our office within 15 days of receipt of the order to obtain approval for the return.



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

# Vegetable Order Form

Online Orders: www.ruppseeds.com

Phone Orders: 1-800-700-1199

FAX Orders: 419-337-5491

Yes, I am a first-time customer    Technology License Number \_\_\_\_\_

Account Number \_\_\_\_\_ Requested Ship Date \_\_\_\_\_

Customer Name \_\_\_\_\_ Ship To \_\_\_\_\_

Billing Address \_\_\_\_\_ Address \_\_\_\_\_  
(Physical Address - no PO Boxes)

City \_\_\_\_\_ City \_\_\_\_\_

State \_\_\_\_\_ Zip \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Email Address \_\_\_\_\_ Office/Home Phone \_\_\_\_\_

I have a new mailing address. (List old address on the back of the order form.)    Mobile Phone \_\_\_\_\_

**PAYMENT METHOD:**

- Debit Card
- Credit Card  
Discover, Mastercard, Visa

- John Deere Financial
- Check # \_\_\_\_\_
- Money Order

Credit Cards, Debit Cards and John Deere Financial payments are not eligible for cash discounts.

**Account Number**

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

Expiration Date \_\_\_\_\_  
Month Year \_\_\_\_\_ 3-digit verification code \_\_\_\_\_

Name on card (please print) \_\_\_\_\_

Card Billing Address \_\_\_\_\_

Signature \_\_\_\_\_

**Sorry, no returns — please only order the seed you need.**

Item No.	Variety Description / Kind	Quantity	Package Size	Price per LB/ Price per M	Price per package	Extended Price
13001	Mary Washington / Asparagus	2	4 oz.		12 50	25 00
<small>When priced per package (quantity x package price) = extended price.</small>						
02126	Ambrosia / Corn	2	5#	18 00		180 00
03235	Octane / Corn	1	2.5M	12 95		32 38
<small>When priced per LB or M (quantity x package size) x price per LB/M = extended price.</small>						



**Seed is sold by package size.** For instance, if you need 6 pounds of sweet corn, you will need to order one - 1 pound package and one - 5 pound package. These package sizes will be at different price breaks.

Signature \_\_\_\_\_ Date \_\_\_\_\_

*\* To avoid shipping delays, please include all required waivers/documents with your order.*

**\*\* See the terms page for details on discounts and shipping charges.**

<b>Total (Above)</b>	
<b>Total (Back)</b>	
<b>Order Total</b>	
<b>Less Credit on Account</b> <small>(as shown on last statement)</small>	
<b>Sub Total</b>	
<b>** Less Cash Discount</b> <small>(if total is over \$350.00)</small>	
<b>** Shipping &amp; Handling</b> <small>(add if total is under \$350.00)</small>	\$15.00
<b>Net Due (US Funds)</b>	







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

# Vegetable Order Form

Online Orders: [www.ruppseeds.com](http://www.ruppseeds.com)

Phone Orders: 1-800-700-1199

FAX Orders: 419-337-5491

Yes, I am a first-time customer    Technology License Number \_\_\_\_\_

Account Number \_\_\_\_\_ Requested Ship Date \_\_\_\_\_

Customer Name \_\_\_\_\_ Ship To \_\_\_\_\_

Billing Address \_\_\_\_\_ Address \_\_\_\_\_  
(Physical Address - no PO Boxes)

City \_\_\_\_\_ City \_\_\_\_\_

State \_\_\_\_\_ Zip \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Email Address \_\_\_\_\_ Office/Home Phone \_\_\_\_\_

I have a new mailing address. (List old address on the back of the order form.)    Mobile Phone \_\_\_\_\_

**PAYMENT METHOD:**

- Debit Card
- Credit Card  
Discover, Mastercard, Visa
- John Deere Financial
- Check # \_\_\_\_\_
- Money Order

Credit Cards, Debit Cards and John Deere Financial payments are not eligible for cash discounts.

**Account Number**

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

Expiration Date \_\_\_\_\_  
Month Year

3-digit verification code

Name on card (please print) \_\_\_\_\_

Card Billing Address \_\_\_\_\_

Signature \_\_\_\_\_

**Sorry, no returns — please only order the seed you need.**

Item No.	Variety Description / Kind	Quantity	Package Size	Price per LB/ Price per M	Price per package	Extended Price
13001	Mary Washington / Asparagus	2	4 oz.		12 50	25 00
<small>When priced per package (quantity x package price) = extended price.</small>						
02126	Ambrosia / Corn	2	5#	18 00		180 00
03235	Octane / Corn	1	2.5M	12 95		32 38
<small>When priced per LB or M (quantity x package size) x price per LB/M = extended price.</small>						

Seed is sold by package size. For instance, if you need 6 pounds of sweet corn, you will need to order one - 1 pound package and one - 5 pound package. These package sizes will be at different price breaks.

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

Signature \_\_\_\_\_ Date \_\_\_\_\_

**Total (Above)**  
**Total (Back)**  
**Order Total**  
**Less Credit on Account**  
(as shown on last statement)  
**Sub Total**

\* To avoid shipping delays, please include **all required waivers/documents** with your order.

**\*\* Less Cash Discount**  
(if total is over \$350.00)

**\*\* Shipping & Handling**  
(add if total is under \$350.00)

\$15.00

\*\* See the terms page for details on discounts and shipping charges.

**Net Due (US Funds)**









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

# Watermelon Waiver

**800.700.1199**

**FAX 419.337.5491**

waivers@ruppseeds.com

## NOTICE, WAIVER and COMPLETE RELEASE AGREEMENT

Bacterial Fruit Blotch (BFB) and Gummy Stem Blight (GSB) are serious diseases that have become significant risk factors in many areas where watermelons are grown. The Pathogens causing these diseases (Acidovorax avenae subsp. citrulli for BFB and Didymella bryoniae for GSB), and other watermelon diseases, can be introduced into a field by infested seed, infected transplants, volunteer watermelons, mechanical means, or natural spread from alternate hosts, or may already be present in the field on crop debris or in the soil. While it is impossible to conduct testing procedures that will give 100% reliable results with regard to the identification of any seedborne pathogen, Rupp Seeds' suppliers test all of their watermelon seed lots for commercial sale.

Depending on the supplier, a representative sample of seeds from each watermelon seed lot has been tested pursuant to current industry standards, and no symptoms of these Pathogens were found to be present within the known limits of detection in the sample tested. Rupp Seeds understands that its suppliers have tested representative samples of all watermelon seed lots covered by this agreement and have not detected the presence of the Pathogens in any such representative samples. Notwithstanding the above, Rupp Seeds cannot and does not guarantee or warrant that such tests are totally conclusive nor that the seeds are free of the Pathogens and, further, cannot and does not guarantee or warrant that the Pathogens may not be introduced to such seeds and/or watermelon plants from outside sources at a later time.

## GROWER'S RELEASE OF ALL LIABILITY FOR BACTERIAL FRUIT BLOTCH.

Acknowledging the above, Grower still wishes to purchase watermelon seeds, and Grower is willing to assume all risks of loss associated with these Pathogens. Accordingly, Grower hereby fully and unconditionally releases Rupp Seeds and its suppliers from any and all liability with respect to the presence of the Pathogens on or within such seeds, or the vulnerability of such seeds, to the Pathogens. Grower acknowledges and agrees that Rupp Seeds and its suppliers shall have no responsibility or liability for any losses or damages relating in any way to the Pathogens under any legal theory including, but not limited to, negligence, breach of warranty, breach of contract, or strict products liability.

Rupp Seeds acknowledges that all other aspects of its express warranty, as contained on the label, do apply, and that any waiver or limitation on the Rupp Seeds express warranty resulting from the terms and conditions of this Agreement, only apply to the presence on or within, or vulnerability of such seeds, to the Pathogens. Grower further agrees that Rupp Seeds and its suppliers also have no liability or responsibility for its watermelon seeds or plants grown therefrom if they are contaminated with the Pathogens after the seeds are delivered to Grower. Grower acknowledges that contamination may occur in a transplant house, in the field, or under circumstances beyond the control of Rupp Seeds and for which Rupp Seeds is not liable to Grower.

GROWER'S SOLE AND EXCLUSIVE REMEDY FOR ANY CLAIM WITH RESPECT TO THE SALE OF SEEDS IS LIMITED IN ALL EVENTS TO A REFUND OF THE PURCHASE PRICE OF THE SEEDS. Grower shall not be entitled to any incidental or consequential damages, including planting or replanting costs, lost profits, or any other expenses, losses or damages. Notice of any claim must be received by Rupp Seeds by registered mail within thirty (30) days after the alleged defect in the seeds becomes apparent to Grower.

## GROWER'S AGREEMENT NOT TO RESELL SEEDS OR PLANTS.

In consideration for Rupp Seeds or its suppliers agreeing to sell watermelon seeds to Grower, Grower hereby agrees that it/he/she will only use such seeds for plantings on its/his/her own holdings, and will not, under any circumstances, sell, transfer, distribute or in any way dispose of any such seeds or seedlings grown from the seeds, with or without consideration, to any third party.

## GROWER'S INDEMNIFICATION AGREEMENT.

Grower acknowledges that in the event it/he/she breaches the terms and conditions of the fourth paragraph of this Agreement with respect to the distribution of such watermelon seeds to a third party, Rupp Seeds and their suppliers could incur liability to such third parties. Therefore, Grower hereby unconditionally agrees to defend and indemnify Rupp Seeds and any of its suppliers, from any and all loss, liability, or damage which Rupp Seeds and any of its suppliers, may incur, including, but not limited to reasonable attorney's fees, relating to any claim by a third party who received any portion of the watermelon seeds which are covered by this Agreement as sold by Rupp Seeds to Grower.

## ADDITIONAL NOTICE regarding TRIPLOID HYBRID WATERMELON.

Triploid hybrid watermelons are sterile hybrids which characteristically produce fruits with few or no true seeds. Because the absence, or relative absence, of hard or true seeds in the flesh of the melon is its chief distinguishing characteristic, the triploid hybrid watermelon is often referred to as a "seedless" watermelon. Despite this popular perception, triploid hybrid watermelons are not true "seedless" watermelons. The first melons to ripen in a field of triploid hybrid watermelons often contain small, undeveloped seeds. In addition, certain genetic, cultural and climatic factors are known to cause the formation of empty seed coats (small, white, undeveloped seeds), also called "pips", and/or hard seeds in the flesh of the melons. Due to the wide variety of possible causes of hard seed formation, TRIPLOID HYBRID WATERMELONS ARE NOT GUARANTEED TO PRODUCE SEEDLESS FRUIT.

## GROWER UNDERSTANDS THIS AGREEMENT.

Grower represents and warrants that it/he/she has consulted with or had an opportunity to consult with an attorney, and that Grower fully understands the meaning and legal effect of this Agreement.

*Continued on the back side.*

Continued from the other side.

**ALL OTHER TERMS OF THE LABEL APPLY.**

Except as expressly provided within this Agreement, all remaining terms, disclaimers, limitations, and conditions of purchase as disclosed and set forth on the Rupp Seeds label and on the Rupp Seeds Notice to Purchase Regarding Liability shall apply to the Grower's purchases of watermelon seed.

**CHOICE OF LAW AND CHOICE OF FORUM.**

The parties agree that this Agreement is entered into the County of the applicable Rupp Seeds supplier and shall be construed in accordance with the laws of that state. It is further agreed that any litigation by and between Grower and Rupp Seeds, or with a Rupp Seeds supplier, relating to the sale of all such watermelon seeds hereunder, shall take place in the county of the applicable Rupp Seeds supplier.

**ATTORNEY'S FEES.**

In the event that Rupp Seeds or its supplier enforces any terms of this agreement in any litigation with Grower, Rupp Seeds and its supplier shall be entitled to recover reasonable attorney's fees from Grower.

**SEVERABILITY.**

The invalidity or unenforceability of any particular provision of this Agreement shall not affect the other provisions hereof, and the Agreement shall be construed in all respects as if such invalid or unenforceable provisions was omitted. Grower has read the above Notice, Waiver, and Complete Release Agreement, understands it, and agrees to be bound by all of its terms. Grower understands this Agreement is part of the contract and a condition of sale, and that no shipment from will occur until Rupp Seeds receives this signed notice.

**Rupp Seeds Inc.**

Signature \_\_\_\_\_

Date \_\_\_\_\_

*I have read and understand this release agreement and I agree to be bound by all of its terms. Please fill out completely and sign below.*

Customer Number \_\_\_\_\_

Customer Name \_\_\_\_\_

Address 1 \_\_\_\_\_

Address 2 \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_ Zip \_\_\_\_\_

Phone # \_\_\_\_\_

Fax # \_\_\_\_\_

Printed Name \_\_\_\_\_

Title \_\_\_\_\_

Signature \_\_\_\_\_

Date \_\_\_\_\_



SEE WHAT GOOD YIELDS<sup>®</sup>

## 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

<p><b>Section A</b> <b>GROWER INFORMATION – Complete This Section – PLEASE PRINT CLEARLY</b></p> <p>Grower Name (Last, First, MI) _____</p> <p>Farming or “Doing Business As” (d/b/a/ Name): _____</p> <p>Address: _____          City: _____ State: _____ Zip Code: _____          Business Phone: _____ County: _____          E-mail Address: _____          (CANADA Only) Dealer Name: _____</p> <p><b>Return Agreement using one of the following methods – please keep a copy for your records:</b></p> <p><b>Mail:</b> Rupp Seeds 17919 County Road B Wauseon, OH 43567 <b>Email:</b> <a href="mailto:waivers@ruppseeds.com">waivers@ruppseeds.com</a> <b>Fax:</b> 1-419-337-5491</p>	<p>YOU, THE UNDERSIGNED GROWER, HEREBY ACKNOWLEDGE AND AGREE THAT: (1) YOU HAVE READ, UNDERSTAND, AND AGREE TO THE TERMS AND CONDITIONS OF THIS AGREEMENT INCLUDING BUT NOT LIMITED TO THE GROWER’S LIMITED USE LICENSE(S) AND GROWER RESPONSIBILITIES SECTIONS; (2) THIS IS A LEGALLY BINDING CONTRACT; (3) YOU ARE FULLY AUTHORIZED TO ENTER INTO THIS STEWARDSHIP AGREEMENT; AND (4) YOU ARE VOLUNTARILY ENTERING INTO THIS STEWARDSHIP AGREEMENT.</p> <hr/> <p><b>Grower Signature</b> _____ <b>Date</b> _____ (Individual at farm level responsible for planting)</p> <hr/> <p><b>Grower Name (Please Print Clearly)</b></p> <p>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).</p>
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This Stewardship Agreement (“Stewardship Agreement”) is entered into between you (“Grower”) and Syngenta Seeds, LLC (“Syngenta”). By signing and returning this Stewardship Agreement without modification (other than Section A above), Syngenta grants Grower a limited license to use the proprietary technology Bt11 and/or the Bt11 x MIR162 x GA21 stack (each, a “Licensed Technology”) embedded in Syngenta’s sweet corn seed product or in any seed product distributed by a third party Syngenta-licensee (collectively, “Seed Product”). Any proposed changes to this Stewardship Agreement other than in Section A are hereby rejected by Syngenta and shall have no effect unless approved in writing by Syngenta.

### STEWARDSHIP

Grower acknowledges receipt of the applicable Attribute® Grower Guide (“Crop Guide”) which is incorporated herein by this reference and may be updated from time to time and found at <http://www.syngenta-us.com/seeds/vegetables/commercial-sweet-corn>. Grower agrees to periodically check the website for the current Crop Guide and to read and comply with the then current Crop Guide. If Grower uses any Licensed Technology after Syngenta’s release of a new version of the Crop Guide or Stewardship Agreement then Growers use shall be deemed an acknowledgement of receipt and agreement to comply with the then current: (i) Crop Guide, (ii) Stewardship Agreement, and (iii) the terms and conditions on the Seed Product packaging (collectively, the “Agreement”). The collective Agreement constitutes the entire agreement between Grower and Syngenta regarding the purchase and/or use of Licensed Technology and supersedes any other terms and conditions whether express or implied.

**GROWER’S LIMITED USE LICENSE(S).** Grower agrees that the Licensed Technology is protected under one or more U.S. patents (the “Patents”). Once this Stewardship Agreement is signed by the Grower then the Grower is granted the limited right, under the applicable Patents, to purchase and plant sweet corn Seed Products containing the Licensed Technology in the United States or Canada (the “Territory”) but strictly according to the terms of the entire Agreement. Grower agrees that any Seed Product acquired in the Territory shall only be planted in the Territory. Further, Grower agrees not to plant Seed Product in the Territory which was acquired outside of the Territory.

**GROWER RESPONSIBILITIES.** Grower shall: (a) use Seed Products solely for planting a single commercial crop of fresh produce, forage or grain for food, feeding or processing; (b) not supply, transfer, resell, license or sublicense any Seed Products to any other person or entity for planting or any other purpose; (c) not to save any crop produced from Seed Products for planting by Grower or any other person or entity; (d) abide by the terms of the entire Agreement, as it may be updated from time to time as described above; (e) report to Syngenta the number of acres and the location (county and state) where the Seed Product is planted within 45 days of planting; (f) communicate all applicable stewardship requirements and obligations to any of its employees and agents with respect to handling of or work involving Seed Products and/or the crop produced from Seed Products, and monitor such employees’ and agents’ compliance with Grower’s responsibilities under the entire Agreement; and (g) not use or allow others to use Seed Products, the crop produced from Seed Products, the Licensed Technology or any plant material containing the Licensed Technology for: (i) crop breeding, (ii) research (including, without limitation, agronomic testing or generation of cooperative data against sweet corn seed not containing the Licensed Technology), (iii) generation of registration data or production of Seed Product (unless Grower has entered into a valid, written production agreement with a licensed seed company expressly authorizing one 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

## REMEDY SWEET CORN – SUPPLEMENTAL AGREEMENT

<p><b>Section A</b>  <b>GROWER INFORMATION – Complete This Section - PLEASE PRINT CLEARLY</b></p> <p>Grower Name (Last, First, MI)          _____</p> <p>Farming or “Doing Business As” (d/b/a/ Name):          _____</p> <p>Address: _____</p> <p>City: _____ State: _____ Zip Code: _____</p> <p>Business Phone: _____ County: _____</p> <p>E-mail Address: _____</p> <p>Customer ID #: <u>(Assigned by Syngenta)</u> Technology #: <u>(Assigned by Syngenta)</u></p> <p>Dealer Name: <b>Rupp Seeds, Inc.</b></p> <p>Dealer Number: _____ (Office Use Only)</p> <p>Dealer Phone: <b>419-337-1841</b></p> <p>Third Party Syngenta-Licensee: _____ (Office Use Only)</p>	<p>YOU, THE UNDERSIGNED GROWER, HEREBY ACKNOWLEDGE AND AGREE THAT: (1) YOU HAVE READ, UNDERSTAND, AND AGREE TO THE TERMS AND CONDITIONS OF THIS SUPPLEMENTAL AGREEMENT; (2) THIS IS A LEGALLY BINDING CONTRACT; (3) YOU ARE FULLY AUTHORIZED TO ENTER INTO THIS SUPPLEMENTAL AGREEMENT; AND (4) YOU ARE VOLUNTARILY ENTERING INTO THIS SUPPLEMENTAL AGREEMENT.</p> <hr/> <table style="width: 100%; border: none;"> <tr> <td style="width: 60%;"><b>Grower Signature</b></td> <td style="width: 40%;"><b>Date</b></td> </tr> <tr> <td colspan="2">(individual at farm level responsible for planting)</td> </tr> </table> <hr/> <p><b>Grower Name (Please Print Clearly)</b></p> <p>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) GRO-CORN or 1 (877) 476-2676.</p> <p><b>Please return the agreement back to your Dealer at:</b></p> <p>Fax to : 419-337-5491          Mail to: Rupp Seeds, Inc.   17919 County Road B   Wauseon OH 43567          Email: <a href="mailto:waivers@ruppseeds.com">waivers@ruppseeds.com</a></p>	<b>Grower Signature</b>	<b>Date</b>	(individual at farm level responsible for planting)	
<b>Grower Signature</b>	<b>Date</b>				
(individual at farm level responsible for planting)					

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

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

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

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

**GENERAL PROVISIONS.**

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

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

**MULTI-USE ACCOUNT™ AGRICULTURAL, COMMERCIAL & GOVERNMENTAL APPLICATION**

CR3910398 Litho in U.S.A. (23-07)

*When your application is completed, your John Deere Financial Merchant can fax it to 1-800-732-0251.*
**APPLICANT INFORMATION** Fields marked with an asterisk (\*) are required by law (USA PATRIOT ACT). Your application cannot be processed without this information.

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

 Your Primary Use  Agricultural  Commercial (Non-Ag)  Governmental  Other \_\_\_\_\_

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

\*Business Legal Name (Do not abbreviate) \_\_\_\_\_

\*Tax ID # \_\_\_\_\_

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

 Suffix \_\_\_\_\_ \*Date of Birth \_\_\_\_/\_\_\_\_/\_\_\_\_ Are you a U.S. citizen?  Yes  No

Applicant's Phone # \_\_\_\_\_ Alternate Phone # \_\_\_\_\_ \*Social Security # \_\_\_\_\_

Email Address \_\_\_\_\_

\*Applicant's Physical Street Address \_\_\_\_\_

\*City \_\_\_\_\_ \*State \_\_\_\_\_ \*ZIP \_\_\_\_\_

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

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

\*First Name \_\_\_\_\_ Middle Initial \_\_\_\_\_ \*Last Name \_\_\_\_\_

\*Physical Street Address \_\_\_\_\_

\*City \_\_\_\_\_ \*State \_\_\_\_\_ \*ZIP \_\_\_\_\_

 \*Social Security # \_\_\_\_\_ \*Date of Birth \_\_\_\_/\_\_\_\_/\_\_\_\_ Are you a U.S. citizen?  Yes  No

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

\*First Name \_\_\_\_\_ Middle Initial \_\_\_\_\_ \*Last Name \_\_\_\_\_

\*Physical Street Address \_\_\_\_\_

\*City \_\_\_\_\_ \*State \_\_\_\_\_ \*ZIP \_\_\_\_\_

 \*Social Security # \_\_\_\_\_ \*Date of Birth \_\_\_\_/\_\_\_\_/\_\_\_\_ Are you a U.S. citizen?  Yes  No

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

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

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

Primary Operating Lender / Financial institution \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_

Contact Name \_\_\_\_\_ Phone Number \_\_\_\_\_

Email Address \_\_\_\_\_ Fax Number \_\_\_\_\_

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

**SIGN HERE** X \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
 Applicant's Signature (required)

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

 X \_\_\_\_\_ Print Name \_\_\_\_\_ Date \_\_\_\_\_  
 Co-Applicant's Signature

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

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

**Beneficial Owner Information**

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

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

LEGAL ENTITY NAME \_\_\_\_\_ PHYSICAL ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ ST \_\_\_\_\_ ZIP+4 \_\_\_\_\_ BUSINESS PHONE NUMBER \_\_\_\_\_

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

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

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

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

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

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

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

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

NAME/TITLE \_\_\_\_\_ PHYSICAL ADDRESS \_\_\_\_\_ CITY \_\_\_\_\_ ST \_\_\_\_\_ ZIP+4 \_\_\_\_\_

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

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

Signature: \_\_\_\_\_ Date: \_\_\_\_\_ Legal Entity Identifier \_\_\_\_\_ (Optional)

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

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

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

## **MULTI-USE ACCOUNT™**

FROM **JOHN DEERE FINANCIAL**

### **NO ACCOUNT? NO PROBLEM!**

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Spreads	Preferred	Merchant Authorized
	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:

Rate:	Daily Periodic Rate(s)		Annual Percentage Rate(s)	
	Preferred Regular Purchases	Merchant Authorized Purchases	Preferred Regular Purchases	Merchant Authorized Purchases
	0.055205%	0.060685%	20.15%	22.15%

The above rates are correct as of the date of printing, 07/01/2023, but are subject to change after that date.

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

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

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

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

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

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

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

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

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

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

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

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

These transactions include:

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

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

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

#### **OTHER FEES and CHARGES.**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

#### **Your choice to limit marketing.**

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

## COMPLETING AND SUBMITTING YOUR APPLICATION

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

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

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

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

The total credit limit consists of a Regular and Special Terms credit limit; the Regular credit limit is required to be a minimum of \$100,000.

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

## Informational Requirements for Credit Limits >\$250,000

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

Up to \$250,000 <sup>1</sup>	\$250,001 - \$500,000 <sup>2</sup>	Over \$500,000 <sup>1</sup>	Over \$2,000,000 <sup>1</sup>
Complete Page 1 of the application.  Complete all fields for the maximum credit limit.	Complete Page 1 of the application and attach the most recent year lender-prepared balance sheet with supporting schedules and the most recent year income statement (or equivalent such as a schedule F). If applicable, include the same information for co-applicant, including spouse.	Complete Page 1 of the application and include the <b>two most recent years</b> <sup>3</sup> lender-prepared balance sheets with supporting schedules <b>and</b> the two most recent years income statements (or equivalent such as a schedule F). If applicable, include the same information for co-applicant, including spouse.	Complete Page 1 of the application and include the <b>two most recent years</b> <sup>3</sup> 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).

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

<sup>2</sup>John Deere Financial reserves the right to request additional information if needed.

**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 location John Deere Financial dealer or merchant to apply in person or select from the following options:

**Fax:** 1-800-732-0251 **Questions:** Call 1-800-356-9033 for assistance. **Mail:** John Deere Financial, P.O. Box 5328, Madison, WI 53705-0328

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.

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

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

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

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

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

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



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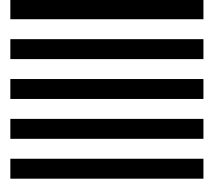
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