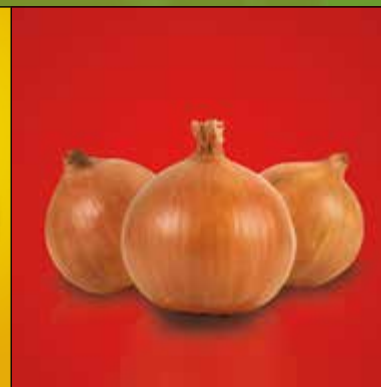
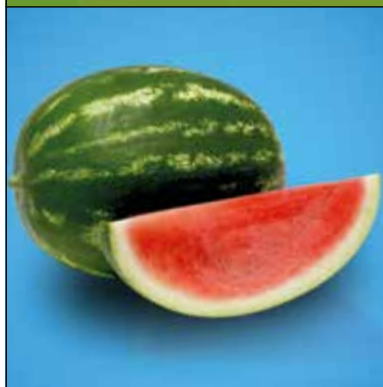




# Vegetable Seed Catalogue




USA & Canada 2021



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In this catalogue, the varieties marked  are available in 100% organic form from Vitalis Organic Seeds. Vitalis Organic Seeds are distributed in the US & Canada by Enza Zaden USA, Inc.



BREEDING TO FEED THE WORLD

WHAT WE DO

We develop new vegetable varieties, based upon the best of nature, supported by highly advanced technology, and produce & sell the seeds of these varieties all over the world.

OUR MISSION

Every day, we team up to ensure a healthy, sustainable future for people all over the world. For our generation and new generations.

INNOVATION

OUR VARIETIES

are attuned to (local) market, climatic and growing conditions

460 MILLION people eat our vegetable varieties daily, worldwide

>30 crops, including:

LETTUCE MELON (SWEET) PEPPER TOMATO ONION CUCUMBER

20 BILLION heads of lettuce, annually grown from our lettuce seeds

ORGANIC SEEDS

Vitalis Organic Seeds

INNOVATIVE CONCEPTS

By cooperation with growers, retailers, traders and consumers

tribelli easyseeds TomAzur Saha

annually 75 MILLION euros for R&D

100 new varieties per year

SEED PRODUCTION On 6 continents In 25 countries >900,000 kg of vegetable seeds per year

SEED SALES On 6 continents Through subsidiaries and distributors

VEGETABLE BREEDING, FOCUSED ON:  
+ Resistances against diseases & plagues  
+ Taste, nutrients & new consumption trends  
+ Yield  
+ Adaption to (changing) climatic conditions  
+ New cultivation methods  
+ Market demand  
- Less pesticides, water, fertilizers in cultivation

INDEPENDENT FAMILY COMPANY

- Anno 1938
- 3 generations
- Collaboration is key
- Long term vision
- Entrepreneurship

"Family businesses tend to think in generations rather than in quarterly figures"

Jaap Mazereeuw Chief Executive Officer and the third generation in command

SUSTAINABILITY IS IN OUR DNA

- Improving the health and well-being of people: granting worldwide access to healthy, varied vegetables
- Reducing our environmental impact
- Improving the living standard of people

WORLDWIDE A MULTI-LOCAL

We establish local subsidiaries and empower local employees

- >2000 employees
- >25 countries
- >45 subsidiaries
- >40 nationalities
- Enza Academy: tailor made internal training courses



# Our new varieties in 2021







# Lettuce | Butterhead

Green

## Cuervo

Cuervo produces a large head and has loose heading characteristics making this variety suitable for processors as well as the fresh market.

Resistances: HR: Bl:16-25,27-35EU/1-9US/Nr:0

## FX1308

The ideal processing Butterhead. FX1308 packs a punch with larger frame, glossy dark green leaves, short core and great uniformity.

Resistances: HR: Bl:16-25,27-35EU/1-9US/Nr:0/Pb | IR: LMV:1

## Milagro

Milagro is a medium green Butterhead boasting larger frame and heavy weight, making this variety ideal for processing. The larger cap leaf and semi-filled top make this variety compatible for carton packs.

Resistances: HR: Bl:16-35EU/1-9US/Nr:0/TBSV | IR: LMV:1

## Mirlo

Mirlo is a voluminous bright green Butterhead variety with excellent performance in late spring and summer.

Resistances: HR: Bl:16-28,30-32EU/1-9US/Pb/TBSV | IR: LMV:1



FX1308



Milagro



Mirlo



# Lettuce | Butterhead



Alkindus



Marciano



## Red

### Alkindus

Alkindus has slightly savoyed leaves and excellent Downy Mildew and red aphid resistance. With a medium head size, Alkindus has a beautiful dark red color and is suitable for full season production. Excellent fill and good field holding capacity.

Resistances: HR: Bl:16-26,28,32EU/1-9US/Nr:0/TBSV | IR: LMV:1

### Marciano

Our newest red Butterhead has been a standout in trials, thanks to its impressive disease package, especially Downy Mildew resistance. Marciano is a more compact variety with good internal fill. Outer leaves are smooth, with an eye-catching deep burgundy red color, which contrasts beautifully with the fresh green interior.

Resistances: HR: Bl:16-36EU/1-9US/Nr:0/TBSV | IR: LMV:1

### Roxy

Roxy is an outstanding red Butterhead variety due to its brilliant leaf color and field performance. Features include a nice base, slow bolting and strong against tipburn.

Resistances: HR: Bl:16,21,23,32EU/1-6US

# Lettuce | Leafy

## Greenleaf

### Bergam's Green

Bergam's Green has a large frame, dark green color and less tendency to head. Bergam is best suited for summer and fall harvests.

Resistances: HR: TBSV | IR: Ss

### Muir

Muir is a medium-sized, light green, open and slow-growing green leaf variety. Muir features a sweet flavor and is strong against bolting and internal tipburn.

Resistances: HR: Bl:16-26,28,32EU/1-9US/Nr:0/TBSV | IR: LMV:1

### Tropicana

Proven to be the best heat and bolt tolerant green leaf variety in its class across the country, Tropicana is tolerant to tipburn and 'leaf scorch' and is Corky Root resistant. Tropicana can be used in fresh packs or whole leaf production.

Resistances: IR: Ss

## Redleaf

### Red Mist

Red Mist is a highly presentable lettuce with nice color contrast between red and green. Red Mist's upright, V-shape helps prevent basal rot and packs well. Featuring an excellent weight for a red leaf.

Resistances: HR: Bl:16-26,28,32EU/1-9US | IR: Ss

## Red Oakleaf

### Bellevue

A red Oakleaf ideal for full size or mini head harvest, Bellevue has a soft butter-like texture and very sweet flavor.

Resistances: HR: Bl:16-36EU/1-8US/Nr:0/TBSV | IR: LMV:1



Bergam's Green



Red Mist



Bellevue



# Lettuce | Leafy



Ilema

Lollo Bionda

## Ilema

Ilema is an impressively voluminous green Lollo. It has a strong plant with nice curliness and a unique combination of good growth speed combined with good weight.

Resistances: HR: BI:16-33EU/1-9US/Nr:0/Pb/TBSV | IR: LMV:1/Fol:1



Eazyleaf is an easy-to-process, high-yielding selection of “one-cut ready” green and red head lettuces and comes in a variety of leaf types that offer fantastic taste and convenience. Featuring brilliant colors and diverse leaf shapes, this product line reflects European tastes, with superior texture, loft and visual appeal. The Eazyleaf brand represents compact lettuce varieties that are extremely easy to slice and prepare. The plants have a narrow base so leaves can be quickly harvested in the field or in the kitchen with little waste. In just one cut, the heads separate into many small, uniformly-sized leaves. This product can be used as a replacement for traditional Babyleaf lettuce mixes. Eazyleaf provides a new alternative with improved eating quality and shelf life.

### Eazyleaf offers:

- A full assortment of leaf shapes and colors.
- Excellent loft, texture and flavor.
- Improved product storability and shelf life.
- Strong yet flexible leaves.
- A high percentage of usable product.
- Flexibility to be sold as a loose leaf mix or a case of mixed heads.

### Benefits to the entire chain

The Eazyleaf brand assortment benefits the entire supply chain. Eazyleaf offers growers efficiency and improved genetics, retailers get superior shelf life and appearance, and consumers enjoy the unique taste these flavorful lettuces bring to the table.

Eazyleaf shapes including Oakleaf, Tango, Incised, Little Gem and Romaine, in variants of green and red, create an instantly appealing salad for consumers, who enjoy the loft, texture, variety and ease of preparation from bagged mixes or whole-head packaging. As new varieties are commercialized each year, the potential for even more intriguing mixes continues. Eazyleaf’s adaptability beyond large commercial operations to include small farm and greenhouse growth across North America is also establishing Eazyleaf varieties as key leafy players in the expanding ‘locally grown’ food trend.







Ezrilla



Ezthana



Green Tango

Ezpark |  

Ezpark is a vibrant green tango for mechanical harvest. Impressive yield combined with good field holding ability make this variety an excellent choice for year-round production.

Resistances: HR: BI-EU:16-36/BI-US:1-9/Nr:0 | IR: LMV:1

Ezrilla 

Ezrilla has incised, dark green outer leaves and a sweet, blanched center. Ezrilla is perfect for adding texture, loft, and crunch to your mix. Strong disease resistance and slow bolting make Ezrilla an adaptable variety for many regions and seasons.

Resistances: HR: BI:16-36EU/1-9US/Nr:0/TBSV | IR: LMV:1

Ezthana

Green Eazyleaf features crisp strong leaves with an erect plant habit and sweet crunch. Ezthana is great for high density planting and for whole head packs.

Resistances: HR: BI:16-36EU/1-9US/Nr:0/TBSV | IR: LMV:1

Eztron 

Eztron is a vivid green cut leaf variety with superior texture and a flavorful crunch. A much improved Eazyleaf green Tango in the one-cut assortment, Eztron features good speed with improved bolting tolerance.

Resistances: HR: BI:16-36EU/1-9US/Nr:0/TBSV | IR: LMV:1

Red Tango

Brentwood 

Brentwood features a lobed deep red one-cut leaf with a glossy soft texture and a lot of dimension. The color contrast between the dark cherry and light green gradation is striking.

Resistances: HR: BI:16-36EU/1-9US/Nr:0 | IR: Fol:1

Burgandy 

Featuring incised Red Tango with narrow attachment, great thick texture and boasting nice vibrant red, Burgandy makes a great addition to organic and conventional farming practices due to its resistant package. Ideal for mechanical harvest.

Resistances: HR: BI:16-36EU/1-9US/Nr:0

Rhone 

Rhone is an incised double Red Tango, ideal for mechanical harvest programs with medium to firm texture, narrow attachment, great bolting tolerance and brilliant red color. The leaf weight will add yield to any existing Eazyleaf program looking for more dimension and crunch.

Resistances: HR: BI:16-33EU/1-9US/Nr:0



Brentwood



Burgandy







# Lettuce | *Eazy* *leaf*™

## Green Oakleaf

### Hampton

Hampton is a voluminous, high leaf count one-cut Oakleaf. Dark, shiny green leaves have a narrow attachment. Ideal for mechanical harvest or hand harvest. Hampton is a flexible variety for year round production.

Resistances: HR: Bl:16-36EU/1-8US/Nr:0/TBSV | IR: LMV:1

## Red Oakleaf

### Buckley

Buckley is a beautiful one-cut red Oakleaf. Lobed, deep red leaves grow in an upright rosette. Pair with Hampton Eazyleaf for a vibrant display.

Resistances: HR: Bl:16-36EU/1-9US/Nr:0/TBSV

## Red Mini Romaine

### Ezbruke

Ezbruke is a stunning red Mini Romaine, with an open habit for either one-cut or whole head harvest. Heads form many 7" leaves that are fresh green at the base and deep cherry red on top. Ezbruke can be grown year round.

Resistances: HR: Bl:16-36EU/1-8US/Nr:0/TBSV | IR: LMV:1



Hampton



Buckley



Ezbruke



# Lettuce | Romaine



Jara



Iblea



Rainier

## Green Romaine

### Arroyo

Fresh market and industry growers will appreciate Arroyo's tall, upright habit, attractive color. Arroyo is best planted in the spring and fall slots. In cooler areas, it can also be planted in the summer.

Resistances: HR: Bl:16-27,29,32,34,36EU/1-8US/Fol:4/TBSV | IR: Ss

### Coastal Star

Coastal Star is a well-loved Romaine with dark green color and tall stature. It is widely adapted and can be grown spring through fall in most regions.

Resistances: IR: Ss

### Iblea |

Large type for midwinter Yuma. Very vigorous and good interior fill. Can be used for multipurpose.

Resistances: HR: Bl-EU:16-36/BI-US:1-9/TBSV/Ss

### Jara

Uniform Green Romaine best suited for heart production with an outstanding resistance package. Best suited for front end Yuma.

Resistances: HR: Bl:16-36EU/1-9US/Fol:1,4/Nr:0/TBSV

### Mezquite

Mezquite is a semi savoy full-sized Romaine with a thick texture. It performs best mid-January through February in the desert region.

Resistances: HR: Bl:16-32,34,36EU/1-9US/Fol:4 | IR: Fol:1

### Rainier

Rainier is a late spring to summer full-size Romaine and is a large, heavy, medium green Romaine for carton, hearts, and processing.

Resistances: HR: Bl:16-27,29,30,32,33EU/1-8US/Fol:4/Nr:0/TBSV | IR: Ss

## Blonde Romaine

### Colbiana

Blonde Romaine boasting great weight, uniformity, straight ribs and volume allowing for increased yields for processors. Colbiana has a great sweet taste complimentary for any value added program.

Resistances: HR: Bl:16-32,34,36EU/1-8US/Fol:4/Nr:0/TBSV

### Weaverville

Weaverville is a Blonde Romaine targeting the value added processing market with great tolerance to fringe burn while holding short cores.

Resistances: HR: Bl:16-32,34,36EU/1-8US/Fol:4/Nr:0/TBSV



Weaverville

## Green Mini Romaine

### Xalbadora

Xalbadora is a medium Green Mini Romaine. The heart features good blanching for nice contrast.

Resistances: HR: Bl:16-36EU/1-9US/Nr:0/TBSV | IR: LMV:1







# Lettuce | Little Gem

Green

## Dragoon 🌸

Dragoon is a well-filling Little Gem that matures slowly and keeps a short core.

Resistances: HR: Bl:16-27,29,32,34,36EU/1-8US/Nr:0/TBSV | IR: LMV:1

## Newham 🌸

Newham is a smooth-leaved green Little Gem with red aphid resistance. Excellent fill, strong tipburn resistance and a very sweet flavor make this variety a standout. Suitable for year-round production in coastal regions, and spring, fall, and winter production in hotter areas.

Resistances: HR: Bl:16-21,23-26,28-36EU/1-9US/Nr:0/Pb | IR: LMV:1/Ss

## Spretnak 🌸

A beautiful and tasty little gem with compact, well-closing heads, smooth outer leaves and tightly packed, blanched hearts. Best for Spring and fall cultivation, with strong field tolerance to downy mildew.

Resistances: HR: Bl:16-21,23,26,28-36EU/1-9US/Fol:1,4/Pb

## Tortola

Tortola is a compact green Little Gem ideal for multi pack program in clamshell or as carton pack.

Resistances: HR: Bl:16-36EU/1-9US/Fol:1,4/Nr:0/Pb/TBSV | IR: LMV:1

Red

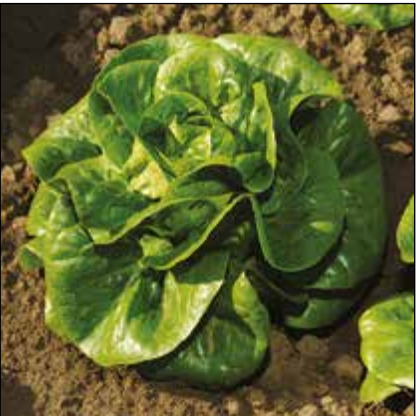
## Truchas 🌸

Truchas is a Mini Romaine/Little Gem type that features a stunning contrast between green hearts and dark cherry red leaves. Beautiful size and color contrast pair well with the green Little Gem, Dragoon.

Resistances: HR: Bl:16-26,28-36EU/1-9US/TBSV | IR: LMV:1



Dragoon



Newham



Truchas





# Lettuce | Iceberg

## Bandelier

Bandelier is a large heading spring variety for possible carton and processing markets.

Resistances: HR: Bl:16-27,29,31,32,34,36EU/1-9US | IR: Ss

## Blas

Blas is targeting growing regions where internal tip burn and fusarium can be a challenge.

Blas has fusarium resistance, excellent uniformity and head shape.

Resistances: HR: Bl:16,21,23,32EU/1-6/Fol:4 | IR: Fol:1,4

## Boulder

Boulder produces a large head with good weight that is very compact and has a short core.

It is best slotted for mid to late spring harvest.

Resistances: HR: Bl:16-27,29,32,34,36EU/1-8US | IR: Ss

## Denali

Denali is a good transition variety from early spring to summer plantings. Round head shape, medium dark color and excellent wrap, this is a fast growing variety.

Resistances: HR: Bl:16-27,29,32,34,36EU/1-8US | IR: Ss

## Diamond

A medium-large Iceberg, Diamond produces a flat round head with smooth ribs and good head protection as well as good tolerance to tipburn and bolting.

Resistances: HR: Bl:17EU/1,3,4US

## Eblin

Eblin is a large heading Iceberg for the front-end planting season. Suitable for carton pack and processors.

Resistances: HR: Bl:16,21,23,32EU/1-6US | IR: Ss



Bandelier



Denali



Eblin



# Lettuce | Iceberg



Newcastle



Paonia



Steamboat

## Midway

Midway is a transitional variety for the DSW. It is a sure heading Iceberg with excellent head size and cover. Midway is very adaptable to handle weather changes from year to year.

Resistances: HR: Bl:16,21,23,32EU/1-6US

## Newcastle | NEW

Newcastle is suitable for carton/processing. It features good yield in a very wide slot. Newcastle’s verticillium resistance has proven strong in severely infected fields and has shown to be very adaptable.

Resistances: HR: Bl:16-27,29,32,34,36EU/1-8US/Vd:1/TBSV | IR: LMV:1/Ss

## Paonia | NEW

Paonia is an adaptable iceberg that has performed well in trials across the country. The variety is fast to mature to a medium size head with excellent internal fill. Paonia has a high round shape, small core and V-shaped base, which allows for ease of harvest and helps to prevent basal rot. Adaptable for fresh market production and processing.

Resistances: HR: Bl:16-29,31,32,34,36EU/1-9US/Nr:0/Pb/TBSV | IR: Ss

## Pueblo

Pueblo is a late spring/early summer and early fall Iceberg that produces medium to large sized heads with defined smooth ribs. This faster maturing variety possesses strong identifiable characteristics such as low cores, uniformity and strong protective wrapper.

Resistances: HR: Bl:16-29,32,34,36EU/1-9US/TBSV | IR: LMV:1/Ss

## Somerset

Somerset is a summer Iceberg producing a flat round head with smooth ribs and great head protection. Somerset has good tolerance to tipburn and bolting compared to other Salinas types in same slot.

Resistances: HR: Bl:16-29,32,34,36EU/1-9US/TBSV | IR: LMV:1/Ss

## Steamboat

Steamboat is an Iceberg with many good characteristics, best suited for summer harvest. It is an excellent choice for processing because of its head weight, short core and resistance to internal tipburn.

Resistances: HR: Bl:16-27,29,32,34,36EU/1-8US | IR: LMV:1/Ss

## Telluride

Telluride has a durable leaf texture with good field holding ability. Telluride is a versatile standard for spring, summer, and fall harvest in cooler climates.

Resistances: HR: Bl:16,21,23,32EU/1-6US | IR: Ss

## Vail

Spring harvest Iceberg with great tolerance to lettuce Big-Vein virus leading to optimal harvest quality. This large framed lettuce is great for carton packers.

Resistances: HR: Bl:16,21,23,32EU/1-6US | IR: Ss



Telluride

Variety	Season	Market use
Bandelier	Spring	Carton and processing
Blas	Fall	Carton
Boulder	Spring	Processing
Denali	Early spring to summer	Processing
Diamond	Summer and fall	Carton
Dillon	Summer and fall	Carton
Eblin	Early spring and fall	Processing
Midway	Early winter	Carton
Newcastle	Summer	Carton and processing
Paonia	Spring and fall	Carton and processing
Pueblo	Spring and summer	Carton and processing
Somerset	Summer and fall	Carton
Steamboat	Summer	Processing
Telluride	Summer and early fall	Carton and processing
Vail	Spring	Carton



# Lettuce | Babyleaf



Pensacola



Deronda



Clearwater



Surfside



Blade



Cavendish

## Green Romaine

### Pensacola

A fast-growing green Romaine with a smooth green color, Pensacola features a thick texture, but pliable, with a slightly serrated margin. The leaf shape is ideal and has a narrow attachment.

Resistances: HR: BI:16-29,32,34,36EU/1-9US/Nr:0/TBSV | IR: LMV:1

## Red Romaine

### Deronda

Deronda is a thick textured red Romaine for Babyleaf featuring narrow attachment point and dark red color.

Resistances: HR: BI:16-36EU/1-9US/Nr:0

## Green Oakleaf

### Clearwater

Clearwater is a medium-dark green Oakleaf with thick, pliable texture and good flavor. Deeply lobed leaves maintain a narrow attachment and three dimensional quality to increase volume.

Resistances: HR: BI:16-36EU/1-9US/Nr:0/TBSV | IR: LMV:1

### Surfside

Surfside is a dark green Oakleaf with excellent weight and crunchy texture. Upright growth and a narrow cutting surface allow for easy harvest.

Resistances: HR: BI:16-36EU/1-9US/Nr:0 | IR: LMV:1

## Red Oakleaf

### Blade

Blade is a beautiful, upright, cherry-colored Oakleaf with good field holding capacity and shelf life.

Resistances: HR: BI:16-36EU/1-8US/Nr:0/TBSV

### Cavendish

Cavendish is an upright Oakleaf with excellent texture and dark ruby red color. Serrated leaf shape gives this item beautiful appearance and it offers excellent shelf life and good field holding ability.

Resistances: HR: BI:16-36EU/1-9US/Nr:0/TBSV | IR: LMV:1

## Greenleaf

### Celinet

Celinet is a Greenleaf with a narrow cutting surface, good leaf flexibility and attractive frilled leaf margin. Celinet grows slowly, which allows for a longer harvest window.

Resistances: HR: BI:16-36EU/1-9US/Nr:0/TBSV | IR: LMV:1

### Kailua (E01K.30571) |

Fast growing Greenleaf, with medium small leaves. Leaf shape is rounded oval with frilly margin. Texture is thick. Color is semi glossy medium dark green. Plant habit is upright and erect.

Resistances: HR: BI:16-36EU/1-9US/Nr:0/LMV:1/TBSV | IR: LMV:1

## Green Tango

### Sycamore

Sycamore is a glossy medium green Tango type with excellent thick texture and uniformity. The finely-serrated leaf margins combine with a narrow basal attachment for a desirable leaf shape.

Resistances: HR: BI:16-36EU/1-9US/Nr:0 | IR: LMV:1



Celinet



Kailua (E01K.30571)



Sycamore





# Lettuce | Heated Greenhouse



Crispyano



Casey



Fairly

## Green Crispy

### Crispyano | NEW

Crispyano is a fast growing crispy variety with a compact shape. It is strong against tipburn and bolting with a good base. This variety has an excellent taste, dark green color, and a crisp juicy texture. Successfully grown in indoor farms as well as greenhouses.

Resistances: HR: Bl:16-27,29,31,32,34,36EU/1-8US/TBSV | IR: LMV:1

## Green Butterhead

### Casey

Casey is a fresh, medium green colored Butterhead for indoor production under long daylength. Casey is medium-fast maturity and yields jumbo-sized heads with excellent weight. It has a flat, clean, closed base and a full disease resistance package. Strong roots and good heat tolerance make Casey a great choice for summer production.

Resistances: HR: Bl:16-36EU/1-9US/Nr:0/Pb

### Fairly | NEW

A medium-large butterhead with fresh green color, strong against internal tipburn. Fairly performs great under lights.

Resistances: HR: Bl:16-34,36EU/1-8US/Nr:0/TBSV

## Green Incised

### Green Reef

Green Reef is a fast growing variety, producing upright heads that are flexible and compact. Highly-serrated green leaves have a thick texture and a narrow attachment. With excellent production, even in high density systems, this variety works year round for whole head or one-cut harvests.

Resistances: HR: Bl:16-36EU/1-9US/Nr:0/Pb/TBSV

## Greenleaf

### Caipira

Caipira performs very well year round, offering an attractive head with spring green color and sweet flavor. The variety maintains its compact size even during the heat, has good leaf size and high tolerance to internal tipburn.

Resistances: HR: Bl:16-26,28,32EU/1-9US/Nr:0/TBSV | IR: LMV:1

## Green Oakleaf

### Divisor | NEW

Divisor is a fast growing, mid green Oak variety that is also strong on Internal Tip Burn (ITB). It grows well in many environmental conditions and has a good taste.

Resistances: HR: Bl:16-36EU/1-9US/TBSV

## Red Oakleaf

### Rosalyn | NEW

Fast growing, nice shape with upright growth. Performs great under lights.

Resistances: HR: Bl:16-36EU/1-9US/Nr:0/TBSV

## Lollo Bionda

### Jokary

Jokary is a quick growing variety with flexible leaves. The plant is compact and easy to pack, with an excellent presentation that especially fits well in trios.

Resistances: HR: Bl:16-36EU/1-9US/Nr:0

## Lollo Rossa

### Litska | NEW

Dark red Eazyleaf with pliable leaves and upright growth. Leaves are juicy with some crisp.

Resistances: HR: Bl:16-26,28,30-33EU/TBSV

## Red Crispy

### Azirka

Azirka is a triple red Lollo type that has a very thick, crunchy leaf with nice flavor. The leaf is rounded with good three dimensional structure. This variety also works well in trios.

Resistances: HR: Bl:16-36EU/1-9US/Nr:0/TBSV | IR: LMV:1



Divisor



Rosalyn



Litska





# Lettuce | Heated Greenhouse

## Green Little Gem

### Elizium

Elizium is a dark green, shiny Little Gem which is slow bolting and has a large harvest period.

Resistances: HR: Bl:16-36EU/1-9US/Fol:1/Nr:0/Pb/TBSV | IR: LMV:1

## Mini Romaine

### Xiomara

Xiomara is a dark green Mini Romaine with fast growth, very good bolting tolerance and a clean upright base.

Resistances: HR: Bl:16-36EU/1-9US/Fol:1/Nr:0/TBSV | IR: LMV:1

## Cosberg

### Cospenza (E01G.11092) |

Flexible, medium sized, dark green Cosberg type. Strong against bolting and internal tipburn.

Resistances: HR: Bl: 16-36EU/1-9US/Nr:0/TBSV | IR: Ss



Xiomara



Cospenza



# Endive



Carleta



Eliance



Leonida

## Curled

### Carleta | NEW

Carleta is a large framed variety, suitable for cool season production. With an upright habit and good cold tolerance, Carleta offers efficient harvestability throughout the winter and early spring. This high yielding endive has a well-filled, blanched heart and can work for both processing and fresh market.

### Curlesi

Curlesi is complementing Maratoneta and Primaleta by providing strong filling during warm season conditions and with good tolerance to tipburn. This adaptable variety has a vigorous upright habit, compact frame and is well-suited for the fresh market.

### Maratoneta

Maratoneta is an improved curly endive variety with dark green outer leaves and a well-filled, bright yellow heart. Maratoneta has a large frame and grows best in cooler conditions. Very tolerant to bolting and suitable for both fresh and processing markets.

## Escarole

### Eliance | NEW

Eliance has a compact frame and strong bolting tolerance that is well-suited for summer through late fall production. The inner leaves of this escarole are long and flexible, which allows for impressive self-blanching. Eliance has an upright structure which minimizes basal rot and allows for ease of harvest.

### Leonida

Leonida is a smooth leaf medium green endive with an upright habit, large frame, and good volume of external and internal leaves. This variety has a strong tolerance to bolting and tipburn, with good field holding capacity.

## Tres Fin

### Benefine

An impressive Tres fin type with a shiny dark green exterior color and well-blanched interior, Benefine features compact, upright, tightly filled heads that are strong against bolting. Suitable for growing in warm conditions, Benefine has impressive resistance to tipburn and produces high yields of nicely frilled leaves.

# Arugula

### Anastazia

Anastazia is a slow-bolting, dark green arugula adapted to summer production. The upright and compact plant has intermediate resistance to Downy Mildew. The leaves maintain their color after harvest and have a long shelf life.

Resistances: IR: Hp

### Bellezia

Bellezia is a beautiful variety with impressive field tolerance to Downy Mildew. Bellezia has an elegant look, with striking dark color and a highly serrated leaf margin. Excellent bolting tolerance and excellent shelf life.

Resistances: IR: Hp

### Grazia

Grazia is an improved wild arugula selection that is more compact with uniform, dark green fine leaves.

### Jolizia

Jolizia is a thick-textured wild arugula with good uniformity and intermediate resistance to Downy Mildew.

Resistances: IR: Hp

### Letizia

Letizia shows great field tolerance to Downy Mildew. Letizia has an exceptionally thick texture, with a smooth leaf margin. Medium green color. Good bolting tolerance in the overwinter slot and excellent shelf life.

Resistances: IR: Hp

### Selvatica

Standard Selvatica is a very tasty wild arugula variety with appealing, finely-serrated spicy leaves.



Anastazia



Bellezia



Grazia




Jolizia



Letizia



Selvatica

 Resistance Makes The Difference: new generation of varieties with excellent resistances.





# Herbs

Basil (*Ocimum basilicum*)

## Dolly

Our largest-leaved Genovese type basil that is fast growing, Dolly demonstrates better tolerance against low temperatures compared to other basil varieties. Recommended for open field production for fresh bunching, bags or processing.

## Eleonora

Upright growth with medium green, big, light serrated leaves. Suitable for open field and pot production.  
Resistances: IR: Pb

## Emily

A compact Genovese type basil with medium to large leaves. Emily is adapted to both field and greenhouse production and has an excellent leaf and plant size for pot production or for fresh cut for bags, clam shells or bunches.

## Emma

A compact Genovese type with medium to large leaves. Emily is highly recommended for its improved shelf-life. Adapted to both field and greenhouse productions, with excellent leaf and plant size for whole plant sales or fresh cut.

## Genoveser

Genoveser is a traditional cup-shaped variety for field production with dark green, shiny leaves. High yielding with strong, sweet basil aroma.

## Keira

A genovese type, Keira is suitable for pot production and for fresh market. Excellent shelf life. Cold tolerant, perfect for long shipments.

## Marian

A very stable and compact Basil which is tolerant against Downy Mildew.

## Rosie

Rosie is a beautiful red variety with an intense, solid dark red color. A compact plant with upright growth and strong stems.



Dolly



Rosie



Resistance Makes The Difference:  
new generation of varieties with excellent resistances.



# Herbs



Staro



Marino



Teddy

## Chives (*Allium schoenoprasum*)

### Nelly

Nelly is a fine to medium thick-shafted chive variety. Nelly is dark blue-green in color, vigorous, and upright growing. Used for all fresh and industrial markets, particularly popular for bunching due to its long slender leaf presentation.

### Staro

Staro is an extra thick, dark green variety for a broad range of growing purposes, including forcing and pot production. Appropriate for fresh cut and industrial markets.

## Cilantro (*Coriandrum sativum*)

### Marino

Marino is a thickly feathered leaf cilantro with excellent plant emergence, late bolting and high yielding.

## Dill (*Anethum graveolens*)

### Ella

Ella is an attractive dark green dill variety bred for pot and babyleaf production. Short hypocotyls give it a sturdy upright and compact plant habit.

### Green Sleeves

Green Sleeves is suited for year round growing in open field and greenhouse production. Excellent growth in extreme hot conditions.

### Teddy

Teddy is a compact dill variety with short hypocotyls. Excellent for potted herb production and open field due to its short plant habit, leaf pattern rotating the stem and bright spring green color. Teddy also fits well in a clamshell due to leaf length.

## Parsley (*Petroselinum crispum*) | Flat Leaf

### Gigante d’Italia

Gigante d'Italia is a flat large-leaved variety that is a dependable standard with large palmate leaves and strong stems.

### Peione

Peione is a perfect Gigante d’Italia with high homogeneity, dark green color and bigger leaves than the standard. Both for fresh market and processing.

Resistances: IR: Pp

## Parsley (*Petroselinum crispum*) | Curly Leaf

### Katinka

Katinka is a medium green, double curled parsley. Katinka stands out for its uniform canopy, reliable yield, and ease of harvest. Suitable for field or pot production.

### Wega

Wega is a double curl parsley that delivers high uniformity, dark color and upright, strong stems. Adaptable for both fresh cut or mechanical harvest, as well as open field and potted herb programs. The architecture of the plant makes for easy, clean bunches. Wega also offers excellent shelf life.

## Sage (*Salvia officinalis*)

### Fanni (Common)

Fanni is a quality sage selection with large leaves, excellent yield and dependable germination.

## Thyme (*Thymus vulgaris*)

### German Winter

German Winter is a bushy plant with broad leaves that can be used for field, greenhouse production for fresh or dried product.



Peione



Katinka



German Winter



Resistance Makes The Difference: new generation of varieties with excellent resistances.



# Spinach



Acadia



Corvair



Crosstrek

## Acadia F1

Acadia is a dark green, semi-savoyed spinach with good texture for Babyleaf harvest. This slow-growing variety is recommended for main season production in Coastal California, and spring and fall production in Northern growing regions.

Resistances: HR: Pfs:1-13,15,16

## Camaro F1

Camaro is a main season Salinas summer type. Its dark elongated oval leaves have good uniformity at maturity.

Resistances: HR: Pfs:1-14,16

## Corvair F1

Corvair produces nice oval-shaped, thick leaves that are upright in stature. Its good in spring and autumn production. Very adaptable.

Resistances: HR: Pfs:1-11,13,15,16

## Crosstrek F1

Crosstrek is a medium to fast growing variety for transition and summer period. It features good leaf texture, slightly savoy leaves, round oval point shape, a medium green color, and its stems are medium to short.

Resistances: HR: Pfs:1-17



## Escalade F1

A flexible variety is excellent for both Babyleaf and bunch harvest, Escalade performs well in spring, summer and fall production. Escalade's field holding ability will make it a favorite when planted in the heat period.

Resistances: HR: Pfs:1-14,16

## Frontier F1 (E03C.1059) |

Medium fast-growing variety in the transition and winter season. Elongated Oval leaves with a Medium green color. The variety has a good leaf texture and giving excellent yields. Because of its upright growing, it is easy to harvest. The variety has a good mildew resistance package; Pfs 1-17.

Resistances: HR: Pfs:1-17

## Sportage F1 (E03C.1038) |

Medium growing variety in mainly the transition slot. Medium green color with uniform nice oval round leaf shape. Leaves are semi savoy. Good leaf thickness so giving high yields. Stems are medium short. Has full mildew resistance, Pfs 1- 17.

Resistances: HR: Pfs:1-17

## Trailboss F1

Trailboss is a medium to slow growing variety for transition period. Featuring smooth leaves with a medium to dark green leaf color. The shape is round oval, with a thick texture.

Resistances: HR: Pfs:1-17

## Traverse F1 (E03D.1062) |

Medium fast-growing variety in transition & summer slot. Medium green color with uniform nice oval round leaf shape. Leaves are semi savoy. Good leaf thickness so giving high yields. Stems are medium short, so the variety is easy to harvest. Has full mildew resistance, Pfs 1-17.

Resistances: HR: Pfs:1-17

## Tundra F1

Tundra is a dark green, semi-savoyed spinach with excellent texture for Babyleaf production. This slow growing variety is recommended for main season production and is an excellent complement to Acadia as it provides 1-4 days earlier harvest.

Resistances: HR: Pfs:1-13,15,16



Frontier (E03C.1059)



Sportage (E03C.1038)



Trailboss



Traverse (E03D.1062)





# Cauliflower

## Borealis F1 | NEW

Borealis is a late-winter/spring variety which provides adaptability throughout the season. Suitable for both fresh and processing markets.

## Mardi F1

Mardi is an early maturing cauliflower that develops uniform, white heads averaging 600-800 grams. Plant habit is vigorous and upright, with partially self-wrapping leaves to protect the curds. Mardi can be grown in the spring, summer and fall in Northern climates.

## Nebula F1

Nebula is one of the more versatile varieties in terms of slotting. It is harvested from spring to fall with outstanding heat tolerance. For fresh and processing markets.

## Synergy F1

Synergy has dense, firm heads suitable for fresh market or processing. The large plants ensure a good head cover. Synergy is widely adaptable for summer and fall production. Maturity 75 days.



Borealis



Mardi



Synergy



# Fennel



Preludio

## Preludio F1

Preludio is a very early bulb fennel variety with excellent field holding capacity and bolting tolerance. Preludio is an early maturing hybrid recommended for spring and early summer harvest; it can also be successfully harvested into early fall in cooler climates.



# Onion

Intermediate - Red

## Cabernet F1

With a vigorous plant habit, Cabernet produces uniform globe-shaped bulbs of outstanding holding ability and high quality. Typical harvest is July through August, offering earliness and firmness.

## Monastrell F1

Monastrell is an intermediate day onion that boasts high quality, single-centered bulbs. Bulbs are uniform and resistant to sunscald in the field. Averaging 3.5-4.0 in. (88-101 mm). Recommended for fresh market.

## Red Emperor F1

Early to mid-intermediate red onion variety with good handling and storage characteristics, Red Emperor produces flattened globe to grano shaped bulbs of 2.4-3.5 in. (60-90 mm). Red Emperor has a tight neck, which is ideal for curing.

Long Day - Red

## Barolo F1

Barolo is an early to mid-season long day red onion with attractive dark red interior, shiny exterior color and globe shape. Strong against root diseases, adaptable to overhead, furrow and drip irrigation, Barolo makes a fine choice for the red onion growers mid-season crop. Marketing flexibility is increased by Barolo’s 3 to 4 month storage window.

## Tannat F1 (E61L.10657) | NEW

Tannat is a dark red medium to late maturing long day onion with excellent exterior and interior color. Tops are large, giving Tannat the opportunity to make larger red bulbs. Root system is vigorous showing good tolerances to both Pink Root and Fusarium. Expected storage is 4 to 8 months.



Cabernet



Monastrell



Tannat





Elsye onion field

# Onion

Short Day - Yellow

## Camilla F1

Camilla is a yellow very early intermediate variety with more than average PRR. The bulb quality and skin finish is unique for this segment. It is a transition onion for the late short day and early intermediate season.

## Gabriella F1

The uniform bulbs of Gabriella have a mild to sweet flavor and an attractive globe shape. For fresh market and short term storage.

## Madalyn F1

Madalyn is an early-to-mid short day onion. It produces globe-shaped, bronze-colored bulbs of 2.4-4.3 in. (60-110 mm).

Early Intermediate – Yellow

## Canarana F1

Canarana offers a strong foliage cover and a strong root system. Recommended for California and Northern Texas.

Intermediate – Yellow

## Elsye F1

Elsye is a mid-maturing intermediate yellow onion with excellent sizing potential. Elsy's strong vigor and bolting tolerances makes Elsy a prime choice for growers looking for an excellent yielding, processor friendly onion that works well in the fresh market. As a bonus, Elsy's mild flavor profile would allow it to be packed as a sweet onion, adding to Elsy's marketing flexibility.



Camilla



Gabriella



Elsye



# Leek



Chinook



Comanche



Oslo

## Chinook F1

Chinook is a fast growing summer hybrid with exceptionally long, straight shanks that clean easily in the field. This variety has excellent uniformity and grows quickly even under cold conditions. Plants are medium green and upright. An excellent choice for reliable, high quality, early season leeks.

## Comanche F1

A main season hybrid-producing leeks, with long shanks that are easy to peel. Comanche has dark green foliage and an upright habit. This adaptable variety has a flexible harvest window and can be marketed loose, in bunches or in cello packs.

## Oslo F1

Our latest maturing leek, Oslo is a late fall and early winter variety with upright, dark blue leaves and a stocky shank that is easy to peel. This variety performs very well as an over-wintered leek, with impressive bolting tolerance.

## Blauwgroene Herfst – Tadorna

This late autumn/winter leek is very uniform and can fit into most leek programs, given its adaptability to several growing regions. Tadorna has long white shanks and is easy to harvest and clean.

# Radish

## Celesta

Celesta produces nice red round uniform bulbs of excellent quality. It has compact, strong and upright foliage making it easy to harvest. Celesta is broadly adaptable and recommended for field and high tunnel production.

## Escala

Escala is an open field hybrid for spring and autumn crops. The round and brilliant red bulbs have excellent uniformity, good internal quality, are cracking tolerant and are strong against Peronospora. Strong, dark green foliage for manual and mechanical harvest.

## Pearl

A white smooth round radish with a small green neck for open field production. Pearl features very vigorous growth, with good resistance to cracking. It’s often used as a processing radish in cello bags or in fresh bunches due to its strong tops.



Celesta





# Squash | Summer



Cash Machine



Green Machine



Renegade (E28Z.00697)

## Green Zucchini

### Cash Machine F1

Cash Machine produces very high quality medium dark green zucchini with light flecking and a small blossom scar. Cash Machine fruits are easy to harvest thanks to the open plant habit.

Resistances: IR: Px/ZYMV/WMV/PRSV

### Desert F1

Desert produces dark green uniform fruits that set well in cool conditions, with a low percentage of aborted fruits. We chose this variety’s name because of its impressive tolerance to drought stress. Desert has shown strong tolerance to Powdery Mildew (Px) in fall plantings, offering growers opportunity for late season planting.

Resistances: IR: Px/CMV/ZYMV/WMV/PRSV

### Dunja F1

Dunja is open and compact with a vigorous growth habit, easy fruit set, and high yields. The fruits are shiny, finely-speckled, dark green, and of superior quality.

Resistances: IR: Px/ZYMV/WMV/PRSV

### Green Machine F1

Green Machine is consistently a top performer in the Southeast, Midwest and Northeast in terms of yield and squash quality. Medium green fruit color. Green Machine is appreciated for its open, labor-friendly plant habit.

Resistances: IR: Px/CMV/ZYMV/WMV

### Renegade F1 (E28Z.00697) | NEW

Renegade is a high quality medium-dark green fruit with light flecking. High yielding, open and erect plant with early male flowers help with early yields.

Resistances: HR: ZYMV/WMV/PRSV | IR: Px

## Grey Zucchini

### Mexicana F1 (E28M.00679)

Mexicana is the most recent addition to our expanding cucurbit assortment, and offers higher yields and ease of harvest compared to the competition. Fruits are early, uniform, grey-green in color, and highly prolific. The upright, open plant habit is characteristic of the Vitalis zucchini breeding program. Mexicana’s flavor is nutty and tender and definitely worth a try.

Resistances: IR: Px/CMV/ZYMV/WMV/PRSV/SLCV

## Yellow Zucchini

### Yellowfin F1

Yellowfin has a brilliant yellow color and produces high yields of straight, cylindrical fruits. This variety has the vigor and disease resistance required to withstand tough field conditions and still produce an abundant harvest.

Resistances: IR: Px/CMV



Mexicana



Yellowfin







# Squash | Winter

## Butternut

### Havana F1

Havana has tan fruit with an average of 3-4 lbs. (1.3-1.8 kg). This variety is uniform and extremely productive. Blocky fruits have a thick neck and a small seed cavity. Flesh is intense orange and tasty.

Resistances: IR: Px/ZYMV

### Matilda F1

Matilda is a large butternut for the processing market, with fruit averaging 7-8 lbs. (3.2-3.6 kg). This high yielding variety has good plant vigor and is semi-early, especially for this class. Fruits are uniform, with dark orange-colored flesh.

### Tiana F1

Tiana is a blocky, slightly cylindrical variety with an average fruit size of 2.2-2.5 lb. (1.0-1.2 kg) and fruit dimensions of 7 x 3 in. (18 x 8 cm). The yield potential of Tiana is up to 50% higher than any open pollinated Butternut. The fruit quality is very consistent and the exterior skin color is a dark tan color.

Resistances: IR: ZYMV

## Halloween Pumpkin

### Bellatrix F1

Bellatrix produces a high yield of beautiful round pumpkins with bright orange color that are ideal for carving. The 15-25 lbs. fruit have a very strong handle for ease of transportation.

Resistances: IR: Px

## Red Kuri

### Steph Kuri F1 (E30R.00056) | NEW

You do not have to be a basketball fan to appreciate the all-star traits of our newest red kuri. Steph Kuri is a high yielding variety with uniform fruit that average 2.5-3.5 lb. (1.1-1.6 kg). The fruit make an attractive display with a deep reddish-orange color, sweet and nutty flavor, and skin that can be cooked and eaten without peeling. Steph Kuri has a vining plant habit, excellent vigor, and good tolerance to powdery mildew. This variety also has great post-harvest shelf-life.



Tiana

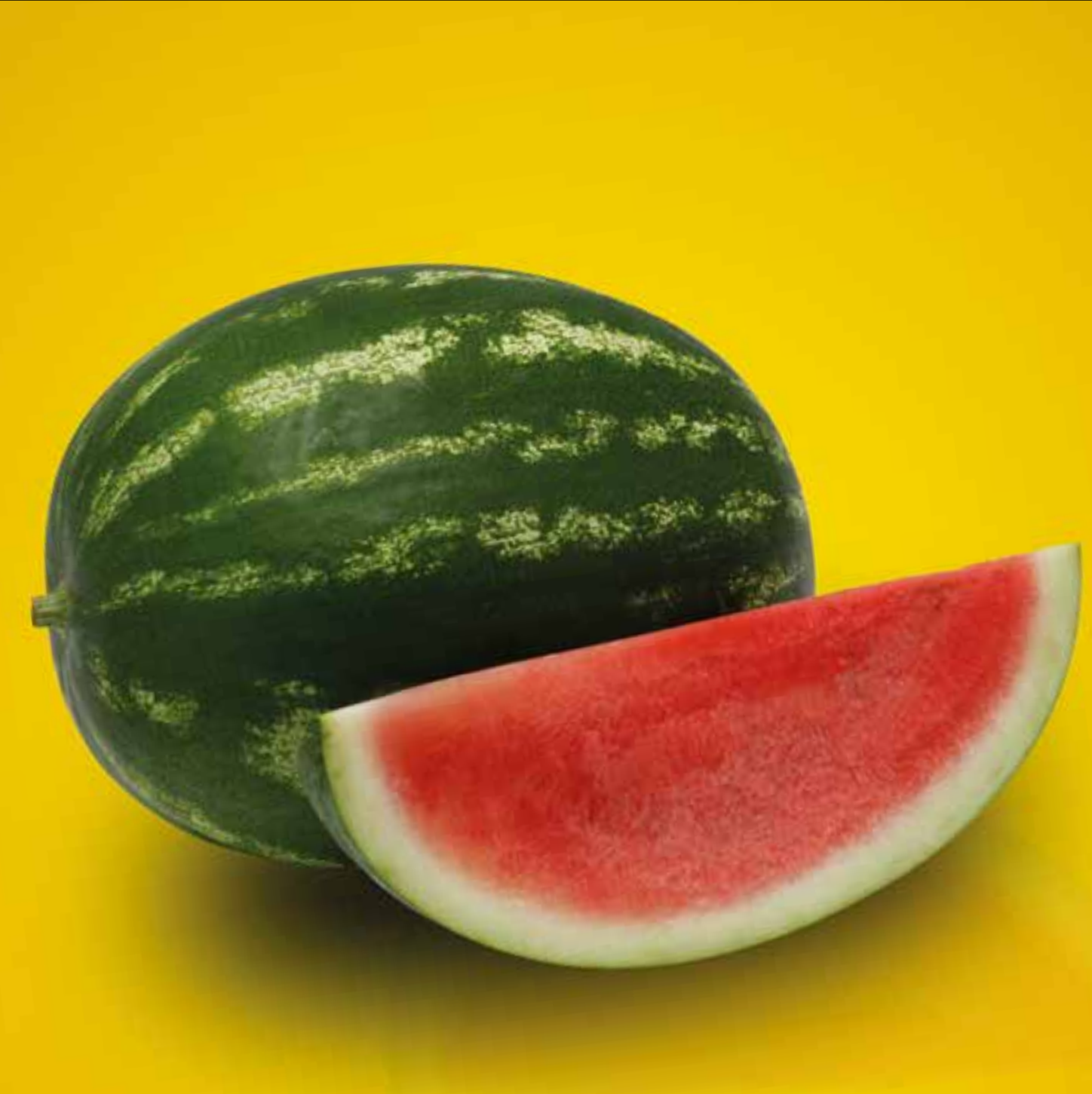


Bellatrix



Steph Kuri' (E30R.00056)





# Watermelon

## Cracker Jack F1 (E26C.00063) |

Cracker Jack has an early maturity of 81-83 days with a very strong vine that has a continuous fruit setting ability and produces fruit that are blocky and oval. The uniform fruit have a firm flesh with a very deep red internal color. Recognized by growers and brokers alike for its outstanding yields, sweetness and flavor with a dark red interior and small pips. Average weights are from 15-18 lbs.

Resistances: IR: Fon1

## Red Amber F1 |

Red Amber with its strong vigorous plant, produces high yields of uniform high quality oval fruit. Red Amber has firm flesh, small pips, a crisp texture and dark red interior color. Red Amber is a medium green striped melon averaging 16-20 lbs. The fruit mature in approximately 88 days.

Resistances: IR: Fon0/Fon1/Co1

## Red Garnet F1 |

Red Garnet has consistently shown outstanding seeding vigor in the greenhouse producing stout transplants and in field providing a strong aggressive vine that provides excellent fruit coverage and sun protection. Red Garnet is a dark green stripe type seedless watermelon showing wide adaptability in commercial fields throughout most North American production areas. The strong vigorous plant produces uniform 16-20 lbs. of oval fruit with deep red flesh in about 84 days.

Resistances: IR: Fon0/Fon1

## Red Opal F1 |

Red Opal is a very grower friendly seedless watermelon. It produces a concentrated set of high quality light green fruit. Red Opal consistently produces uniform oval fruit maturing in about 85 days with weights ranging from 15-19 lbs.

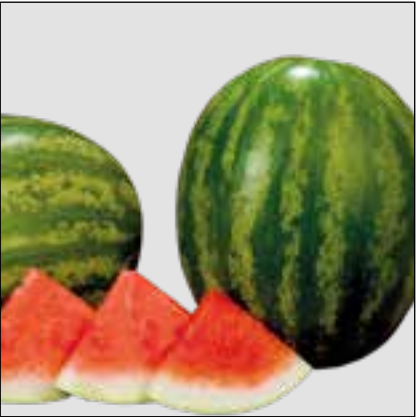
Resistances: IR: Fon0/Fon1/Co1



Cracker Jack (E26C.00063)



Red Garnet



Red Opal





# Melon

## Cantaloupe

### Karameza F1

With a concentrated set of fruit and the ability to hold in the field, Karameza can be harvested in only two or three passes. Karameza plants love the heat; making this variety a great fit for spring and summer crop. Fruit size mainly 9s.

Resistances: HR: Fom:0,1,2 | IR: Px:1,2,5

### Kazta F1

In sensory panels Kazta was the preferred choice for its ideal balance sweetness/acidity and for its juiciness. Highly uniform fruits that present well on the shelf. Fruit size mainly 12s.

Resistances: HR: Fom:0,1,2/MNSV | IR: Px:1,2,5

## Tuscan

### Iperione F1

Iperione is a modern Tuscan variety that delivers on yield, field holding ability and eating quality. The creamy shell and persistent green sutures, contrast well to create an outstanding presentation in stores or at the farm stand. Fruits are uniform and round, with very good shelf life. Fruit size: 12s and 9s.

Resistances: HR: Fom:0,1,2 | IR: Px:1,2,5/Ag

### Tirreno F1

Tirreno is a favorite among northern growers. It was selected for its flavor, uniformity and solid production under organic conditions. Tirreno produces round to slightly high round fruits with uniform sutures and thick netting. Exterior skin color is grey to cream with an interior orange flesh color. Fruit size mainly 12s.

Resistances: HR: Fom:0,1,2/MNSV | IR: Px:1,2,5

## Specialty Cantaloupe

### Divergent F1

Divergent is sweet, juicy and ripens earliest in its class. Medium-sized 2.6-3 lbs. (1.2-1.4 kg) fruit set close to the crown for a concentrated harvest. Melons are ready to harvest when they have turned halfway from green to tan.

Resistances: HR: Fom:0,1,2 | IR: Gc:1/Px:1,2,5/Ag



Kazta



Tirreno



Divergent





# Pepper | Blocky

Green to Red

## Beachcraft F1

Beachcraft is a high yielding open field variety that produces smooth, blocky fruits with a high percentage of four lobes. Fruits are well-spaced on compact plants, reducing the number of unmarketable fruit. This widely adapted variety has good leaf cover, minimal cracking and heavy fruit set.

Resistances: HR: Xcv:1-3/Tm:0 | TSWV:0

## Placepack F1

The plants of Placepack have good cover and produce high quality dark green peppers. This variety is positioned for the main season, spring and fall. With Placepack you are assured of a high percentage 4-lobed peppers.

Resistances: HR: Xcv:1-10/PVY:0-1/Tm:0 | IR: TEV

## Prodigy F1

Prodigy is the right variety for growers who want to get good yield from fewer harvest. The plants have good cover with a concentrated set.

Resistances: HR: Xcv:1-10/Tm:0

## Procraft F1

Procraft is a dual-purpose variety, appropriate for both fresh and processing markets due to its quality and firmness at all stages of maturity. Procraft is a tremendous yielder of thick-walled, blocky fruits. Adapted to both coastal and interior growing conditions.

Resistances: HR: Xcv:1-3/PVY:0-1/Tm:0 | IR: TSWV:0/TEV

## Provider F1

The main characteristics of Provider are plants with excellent cover and production of high quality dark green peppers. The plant structure and fruit set make this variety a good choice for extended harvest.

Resistances: HR: Xcv:1-10/PVY:0-1/Tm:0 | IR: TEV



Beachcraft



Placepack



Procraft



# Pepper | Blocky



Regulator



Sprinter



Brocanto

## Green to Red

### Regulator F1 | NEW

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 USA both in main season and spring and fall. With the grower in mind, Regulator features a strong plant with good cover and great fruit uniformity.

Resistances: HR: Xcv:1-10/Tm:0 | IR: TSWV:0

### Sprinter F1

Sprinter produces a high yield for a long production period of beautiful peppers of 3.5 in. (90 mm) fruit. This variety is not sensitive to blossom end rot or russetting.

Resistances: HR: Tm:0-3

### Triology F1

As a pepper positioned for the main season plantings, Triology withstands warmer conditions while maintaining its blocky shape and thick, heavy walls.

Resistances: HR: Xcv:1-5/PVY:0/Tm:0 | IR: TSWV:0

## Yellow

### Abay F1

Abay produces large fruits of 4 in. (95 mm) with thick walls. Suitable for spring and fall plantings in the open field in the Southeast regions and as a main crop in the Northeast and Midwest.

Resistances: HR: Xcv:1-5/Tm:0

### Brocanto F1

Brocanto is a blocky yellow bell, well-suited for high tunnel production. Fruits are a bright yellow color, with excellent uniformity and smooth skin. Plant habit is vigorous and benefits from trellising. Brocanto's color and size, averaging 3.5 in. (8-9 cm), pairs well with Sprinter and Milena to create an attractive display.

Resistances: HR: Tm:0-3 | IR: TSWV:0

## Orange

### Delirio F1

Delirio is a blocky bell pepper with a beautiful dark orange color. The medium early, strong open plant produces firm fruits with uniform shape.

Resistances: HR: Tm:0-3 | IR: TSWV:0

### Milena F1

Milena is an early maturing orange bell pepper with a high quality fruit with 3-4 lobes. Milena is grown in non-heated protected conditions and open field. Average fruit size 3.4-3.5 in. (85-90 mm).

Resistances: HR: PVY:0-1/Tm:0-3 | IR: TSWV:0/TEV

### Mozart F1

Mozart is a brilliant orange blocky pepper for unheated greenhouse production. Uniform, high quality, blocky fruits are resistant to cracking. Fruits maintain extra-large size of 4 in. (10 cm) over a long harvest cycle. The plant has an open habit that is easy to prune. Mozart is widely-adapted.

Resistances: HR: Tm:0-3 | IR: TSWV:0

## Lilac

### Tequila F1

Tequila is a medium early maturing four-lobed lilac bell pepper, with a strong plant habit with medium vigor. Very unique colored bell in a very productive plant. 3 in. (80 mm) fruit.

Resistances: HR: Tm:0

## White

### Bianca F1

Bianca is a strong growing compact plant, suitable for unheated greenhouse and open field production. The regular, blocky fruits mature to a very attractive shiny light green color, are medium-sized, thick-walled and 3 in. (80 mm) in size.

Resistances: HR: Tm:0



Delirio



Tequila



Bianca



# Pepper | Diverse



Oranos



Bastan



Teniente

## Long Sweet Conicals

### Oranos F1

This outstanding orange conical pepper is a very early variety that produces vigorous plants with fruits 1.5 x 7 in. (4 x 18 cm) in size. Oranos is especially appreciated for its flavor, uniqueness, and easy growth habit.

Resistances: HR: Tm:0

## Ancho/Poblano

### Bastan F1

Bastan is a tasty hot pepper that has good heat and matures to a beautiful chocolate color. The medium-sized fruit are thick walled and have a brilliant dark green color prior to ripening. Bastan produces a concentrated set of consistently high quality fruits for fresh market. Thanks to excellent leaf cover and medium early maturity, growers can expect excellent yields at time of harvest.

### Hitman F1

Hitman is an open field Poblano pepper that has an attractive dark green, glossy color. The well-covered plant provides protection for the fruit from the sun and produces high yields of uniformly large, dark green fruit. Its medium early maturity and high percentage of large 2 lobe peppers, make this an excellent choice for growers throughout the Eastern US.

Resistances: HR: Tm:0

## Jalapeno

### Cuatrero F1

Cuatrero boasts a medium to tall plant with a well-filled canopy over a strong plant structure. Cuatrero's high yields of uniform fruit with their dark green color and high resistance to cracking, make this an excellent choice for growers in the Eastern US.

Resistances: HR: Xcv:1,4/PVY:0/Tm:0 | IR: Ma/Mi/Mj

### Teniente F1

Teniente joins Enza Zaden's Jalapeno assortment as a pepper that's positioned for growers looking for a compact to medium-sized plant with a good canopy and concentrated fruit set. Teniente stands out with its uniform green color and high resistance to cracking.

Resistances: HR: Xcv:1-4/PVY:0

# Pepper | Heated Greenhouse

## Blocky Red

### Ocelot F1

Ocelot is a large blocky red bell pepper with the flexibility for both summer and winter crops. The strong, full body plant allows for high yields throughout the production cycle, maintaining good fruit sizes of 4 in. (10 cm) with excellent quality.

Resistances: HR: Tm:0-3 | IR: Ma/Mi/Mj

### Triple 5 F1

Triple 5 has a semi-open plant architecture and a generative habit that sets fruit easily. This high yielding variety works best when managed as a fast growing crop. High quality fruits are uniform and blocky during the entire life of the crop. Fruits average 3.5 in. (8-9 cm).

Resistances: HR: Tm:0-3 | IR: Ma/Mi/Mj

### Viper F1

Viper is a high quality variety with good yields that is also fairly early. Fruits average 3.5 in. (8-9 cm) and have an impressive weight. Fruit set is regular and evenly distributed throughout the plant, adaptable to almost all conditions. Viper has an open plant habit with a lot of vigor, and is best grown at high speed.

Resistances: HR: Tm:0-2

## Blocky Orange

### Orbit F1

Orbit is an orange blocky bell pepper with a vigorous plant habit and high yield. Recent sales in Canada, the USA and Mexico have shown Orbit to be adaptable in early and late sowings and productive throughout the season. Fruits average 3.3-3.5 in. (8-9 cm). This exciting addition offers growers a versatile and high-quality orange pepper with impressive shelf life that will nicely round out their assortment.

Resistances: HR: Tm:0-3

### Originale F1

This orange bell pepper produces blocky fruit with good quality that are an ideal size for bagging (3.5 in., 8-9 cm) and strong against pitting. The plant is moderate in height with an open, generative structure that can be grown in either glass or poly structures. Originale sets fruit early, and colors quickly, producing high yields that are easy to harvest.

Resistances: HR: Tm:0-3 | IR: TSWV:0



Triple 5



Viper



Orbit



# Pepper | Heated Greenhouse



Bentley



Eurix

## Blocky Yellow

### Bentley F1

Bentley is our heated greenhouse yellow blocky pepper variety with a compact and generative plant that produces a high percentage of extra large fruits of 3.5 in. (9+ cm) with four lobes. This high yielding, labor friendly variety has an open plant habit, short internodes and a generative character. Bentley easily sets fruits and has a high fruit load. For the best results, we recommend a cultivation strategy focused on promoting growth and speed of plant development.

Resistances: HR: Tm:0-3

### Eurix F1

This yellow blocky bell pepper was a standout in trials for its early maturity, consistently high yields and ease of fruit set. Eurix has a strong root system which contributes to a uniform fruit size of 3.7 in. (9.4 cm), as well as adaptability to a range of growing conditions while maintaining a generative balance. Fruit is light green when immature, and colors to a medium yellow, with exceptional shelf life.

Resistances: HR: Tm:0-2

### Gialte F1

Gialte is a yellow blocky pepper with exceptional production and quality. The flexible nature of this variety makes it well-suited to all cultivation systems. Fruit size is medium to large, and works well for mixed bag sales. With an attractive yellow color, good uniformity and excellent shelf life, Gialte is a great addition to a colored bell program.

Resistances: HR: Tm:0-3

# Eggplant

### Annina F1

This gorgeous striped eggplant will not fail to impress growers and eaters alike. This adaptable variety produces well in both high tunnel and open field production systems, and yields half long, uniform fruit that average 0.7 lb. (318 gr). Growers will appreciate the spineless calyx, and customers will love the deep purple color striped with fine white lines.

### Traviata F1

Traviata is a strong growing, well-balanced plant that produces half-long, uniform, black, shiny fruits. A high yielding and early variety recommended for spring and summer open field and unheated greenhouse production.



Annina







# Tomato | MIXOLOGIST COLLECTION

## Specialty

### CubraLibre F1 (E15B.42108) | NEW

CubraLibre is a deep round purple tomato that combines excellent productivity and quality. Fruits average 6-10 oz. (170-283 g) and pair well with MaiTai for an attractive display. CubraLibre is sweet tasting with smooth texture and the fruit are very resistant to cracking. Plant vigor is excellent with both leaf mold and powdery mildew resistances for very strong performance in high tunnel systems.

Resistances: HR: ToMV:0-2/ToANV/Ff:A-E/Fol:0,1 | IR: On

### GinFiz F1 (E15B.42117) | NEW

GinFiz combines the flavor, texture and color of Striped German with the disease resistance and productivity of modern hybrids. Fruit average 10-14 oz. (283-397 g), exhibit minimal cracking, and are delicious. GinFiz has excellent early fruit yields and incorporates leaf mold resistance for improved high tunnel production. GinFiz is a generative plant and benefits from grafting and single leader production.

Resistances: HR: ToMV:0-2/ToANV/Ff:A-E/Va:0/Vd:0/For

### MaiTai F1 (E15B.42119) | NEW

MaiTai is an attractive yellow round tomato with a delicate red blush at the blossom end. The eating quality of this variety won us over in our trials, with a sweet tangy flavor and melt-in-your-mouth texture. Fruits average 6-10 oz. (170-283 g). MaiTai has good vigor and productivity, with leaf mold resistance for improved high tunnel production. MaiTai has thin skin and should not be over-irrigated to avoid cracking.

Resistances: HR: ToMV:0-2/ToANV/Ff:A-E/Va:0/Vd:0/Fol:0,1/For

### Marsalato F1

This unique Marmande tomato originates from our specialty breeding program in Italy, and yields high numbers of 6.7 oz. (190 gr) red fruit with deeply ribbed shoulders, a shiny exterior and small blossom scar. With a balanced, generative growth habit and leaf mold resistance, Marsalato is well-suited for protected culture, but also is adaptable to the open field, especially in more moderate climates. We suggest harvesting fruit with slightly green shoulders for a crisp texture and a tangy flavor.

Resistances: HR: ToMV:0-2/ToANV/Ff:A-E/Va:0/Vd:0/Fol:0/For



CubraLibre



GinFiz



MaiTai



# Tomato



Caiman



Skyway 687



Suwanee 140

## Determinate Beef

### Caiman F1

This early maturing and high yield indeterminate hybrid has a vigorous, open compact plant with short internodes and good fruit set. The round fruit are large in size, 12 oz. (355 gr), very tasty and have an attractive deep red color. Caiman is easy to cultivate, has leaf mold resistance and is recommended for high tunnel production.

Resistances: HR: ToMV:0-2/Ff:A-E/Va:0/Vd:0/Fol:0,1 | IR: TSWV/Ma/Mi/Mj

### Skyway 687 F1

With its high quality fruits, Skyway provides an excellent option in areas facing high nematode, TYLCV and bacterial pressure. This widely adaptable hybrid performs well under heat and provides resistance to TSWV and Fusarium wilt race 3.

Resistances: HR: ToANV/Va:0/Vd:0/Fol:0-2 | IR: TSWV/TYLCV/Ma/Mi/Mj

### Summerhaven F1

Summerhaven produces extra-large fruit and a highly-marketable yield. With the grower in mind this variety offers strong plant vigor, excellent plant cover, as well as outstanding shipping capabilities. For the consumer, this variety is sure to exceed expectations with its beautiful, dark red fruit and its attractive, round shape. Summerhaven is a widely-adaptable with an impressive resistance package, fit for the main growing seasons.

Resistances: HR: ToANV/Va:0/Vd:0/Fol:0-2/For | IR: TSWV/TYLCV

### SunFresh F1

SunFresh is broadly adaptable hybrid that offers a robust flavor, delectable aroma, and remarkably firm-bodied fruit. Created to maintain quality through shipping and maintain its fresh appearance on the shelf; this tomato was developed with the consumer in mind. This distinctive open field, vine ripe tomato also has agronomical attributes for use in a high tunnels growing structure.

Resistances: HR: ToANV/Va:0/Vd:0/Fol:0-2 | IR: TSWV/TYLCV/Ss/Ma/Mi/Mj

### Suwanee 140 F1

This early maturing round beef determinate variety produces a heavy, concentrated set. Suwanee 140 adapts to the warm transplanted slot in the Southeast and can be used for both the mature green and vine ripe markets.

Resistances: HR: ToANV/Va:0/Vd:0/Fol:0-2/For | IR: TSWV/TYLCV

### Winterhaven 163 F1

With its strong vigor and desirable plant architecture, Winterhaven is a mature green determinate variety that is adapted to withstand cooler weather conditions. Its strong disease resistance package sets it apart from the competition.

Resistances: HR: ToANV/Va:0/Vd:0/Fol:0-2 | IR: TSWV/TYLCV

## Cherry

### Sakura F1

Sakura is an all-around variety, producing beautiful mid-sized round fruits of 0.5-0.8 oz. (15-20 gr). The fruit are tolerant to cracking, with sepals well attached, with trusses of 20 fruit or more. Adapted to unheated greenhouses, high tunnels or the open field. This is a very tasty and productive variety.

Resistances: HR: ToMV:0-2/Ff:A-E/Fol:0,1 | IR: Ma/Mi/Mj | T: Si

### Toronjina F1

Toronjina is a highly attractive Cherry tomato with excellent taste and vibrant orange color. Adaptable to greenhouse and field production, this orange Cherry is an excellent combination in a mix with our red cherry tomatoes. It produces high yields of tomatoes of 0.65-0.78 oz. (18-22 gr).

Resistances: HR: ToMV:0-2/Ff:A-E/Fol:0,1

## Roma/Plum

### Granadero F1

Granadero is an intermediate plum tomato variety with a compact vigorous plant for the open field or unheated greenhouse. It produces a high yield of large fruits, and demonstrates a tolerance to cooler conditions. Medium to early plant maturity of fruits with an average weight of 5 oz. (150 gr).

Resistances: HR: ToMV:0-2/Lt/Va:0/Vd:0/Fol:0,1 | IR: TSWV/Ma/Mi/Mj

## San Marzano

### Pozzano F1

Pozzano is a “San Marzano” type hybrid variety that looks like an heirloom. It has a smooth shape, with a fruit size that can easily exceed 5 oz. (150 gr). Spectacular yield and uniformity, especially in spring/summer crops. Good tolerance to blossom end rot. Fruits are full, without green shoulders. Good shelf life and firmness.

Resistances: HR: ToMV:0-2/Va:0/Vd:0/Fol:0,1



Sakura



Granadero



Pozzano



# Tomato | Heated Greenhouse



Extenza

## Tomato on the Vine (TOV)

### Extenza F1 | NEW

Extenza is a large truss tomato with a vigorous plant that handles warm summer nights very well. The full resistance package provides flexibility for growing with or without rootstock. Fruit size is extremely uniform, and ranges 5.1-5.4 oz. (145-155g). Leaf pruning is recommended in order to keep the plant well-balanced.

Resistances: HR: ToMV:0-2/ToANV/Ff:A-E/Va:0/Vd:0/Fol:0-1/For | IR: On/Ma/Mi/Mj | T:Si

## Cocktail

### Annamay F1

Annamay is a slightly smaller cocktail tomato with an average weight of 1.2-1.4 oz. (35-40 g). Balanced plants have good vigor and a strong resistance package. The trusses are well-shaped, compact and very uniform. Attractive fruits are glossy and crack-resistant, with a sweet, aromatic flavor.

Resistances: HR: ToMV:0-2/Ff:A-E/Va:0/Vd:0/Fol:0,1 | IR: On | T: Si



## Cherry

### Tomagino F1

Tomagino stands out for its sweet flavor and its strong resistance to splitting. Well balanced plants have excellent setting and are fast to mature, making it suitable for year round production. Expect 0.6-0.7 oz. (17-20 g) fruits, with superior color and shine, on highly uniform vines. This variety also works well for TOV (tomatoes on the vine) production.

Resistances: HR: ToMV:0-2/Va:0/Vd:0/Fol:0/For | IR: On

### Tomagellow F1 & Tomarange F1 | NEW

Tomagellow (yellow cherry) and Tomarange (orange cherry) create the perfect trio with Tomagino (red cherry). With a similar genetic background to Tomagino, Tomagellow and Tomarange plants are uniform, balanced and easy to manage. Fruit size matches well at 0.7-0.8 oz. (20-22 g), and demonstrate the characteristic sweet flavor, glossy color, and excellent crack resistance of Tomagino. Disease resistance packages vary slightly.

Tomagellow Resistances: HR: ToMV:0-2/Va:0/Vd:0/Fol:0,1/For

Tomarange Resistances: HR: ToMV:0-2/ToANV/Fol:0/For | IR: On

## Grape

### Garincha F1

Garincha is a beautiful, oval shaped grape tomato for heated greenhouse production. It has a vigorous, easily-balanced plant type. Uniform fruits are 0.4 oz. (12 g) in size with an attractive, shiny red color. The production capacity of Garincha is extraordinary. Trusses set well as the plant grows, staying in balance through a long cropping cycle. Garincha is very suitable for loose harvest, but also can be harvested on the truss.

Resistances: HR: ToMV:0-2/Fol:0,1 | IR: TSWV/Ma/Mi/Mj



Tomagellow



Tomarange



Garincha



# Cucumber



Tyria

## Long Types

### Braganza F1

Braganza is a strong and vegetative plant, with an especially strong head, even in cold conditions. Fruit are dark color, straight, slightly wrinkled and highly uniform. .  
Resistances: HR: Ccu | IR: CMV/CVYV/CYSDV/WMV/Px

### Poniente F1

Poniente offers a strong resistance package and produces uniform dark green fruit that are 11.8-12.6 in. (30-32 cm) long and nicely ribbed. Recommended for unheated and heated greenhouse production, Poniente performs best in the spring and fall in hot climates, and does well in spring, summer, and fall in cooler climates.  
Resistances: HR: Ccu | IR: CMV/CVYV/CYSDV/Px

### Tyria F1

Tyria is a very vigorous variety, developing dark green, slightly ribbed, well-filled fruits of 13 in. (33-36 cm) in length with a gradual production change from the main stem to the laterals. It can be grown in the open field and unheated greenhouse over a broad range of seasons.  
Resistances: HR: Cca/Ccu | IR: Px



## Mini

### Katrina F1

Katrina is a robust and productive mini-cucumber with an open plant habit and only a few laterals. The fruits, 3-4 per node, are of top quality. They are glossy, nicely ribbed, very uniform and 6 in. (16 cm) long.  
Resistances: HR: Ccu | IR: CMV/CVYV/Px

### Picolino F1

Picolino is a widely adaptable variety that produces uniform, high quality mini cucumbers. Compact, vigorous plants are early to produce and maintain a high level of production throughout the season.  
Resistances: HR: Cca/Ccu | IR: CMV/CVYV/Px

### Socrates F1

Socrates produces dark green fruits of 7 in. (17-18 cm) that are tender and sweet. Adapted to both open field and unheated greenhouse conditions, and performs best in spring and fall. The variety is Necrosis free.  
Resistances: HR: Ccu | IR: Px

## American Slicer

### Corinto F1

A slicer variety for autumn and spring production that sets well under cool conditions. This variety is very productive and produces cylindrical, dark green, shiny and rather smooth fruits of 8-10 in. (20-25 cm). An excellent disease resistance package.  
Resistances: IR: CMV/CVYV/Px

### Paraiso F1

Paraiso is a very flexible variety adapted well to varying growing conditions. The plant is vigorous and produces well in cold conditions. Fruits average 8-9 in. (20-22 cm) long, and are cylindrical, shiny and dark green. They have good shelf life and retain an attractive shine in storage.  
Resistances: IR: CMV/CVYV/CYSDV/Px



Katrina



Paraiso



# Rootstock



Tomato Rootstock

## Tomato Rootstock

### Espartano F1

Espartano is our strongest rootstock, maintaining a balanced growth effect on the scion and not becoming too vigorous. The endurance of this rootstock ensures excellent plant vigor and high fruit production until the end of the growing season. Even under stressed conditions, the average fruit weight remains stable, resulting in increased total yields.

Resistances: HR: ToMV:0-2/Ff:A-E/Va:0/Vd:0/Fol:0-2/For | IR: TSWV/PI/Ma/Mi/Mj

### Estamino F1

Estamino is a strong, vigorous rootstock with a positive generative effect on the growth of the cultivar grafted on it. An Estamino-graft results in a well-balanced plant with good generative growth. It does not have an excessive vegetative effect on the cultivar grafted on it. The balance in plant growth results in a steady production and all cultivars maintain size and productivity until the end of the cultivation cycle. Estamino is definitely a rootstock for growers that have issues with controlling excessive vegetative growth in their crops.

Resistances: HR: ToMV:0-2/Ff:A-E/Va:0/Vd:0/Fol:0-2/For | IR: TSWV/PI/Ma/Mi/Mj

### Fortamino F1

Fortamino is recommended for use when transplanting into hot growing conditions. The strong root system gives extra vegetative power to the plants in the early stage of growth, providing very good leaf cover and excellent recovery after stress conditions. Grafting on Fortamino also has a positive effect on the number of flowers per truss and higher average fruit weight. For non-heated conditions.

Resistances: HR: ToMV:0-2/Ff:A-E/PI/Va:0/Vd:0/Fol:0-2/For | IR: TSWV/Ma/Mi/Mj

## Pepper Rootstock

### Odysseus F1

Odysseus is designed for heated greenhouse growers interested in boosting their pepper yields. The vegetative power of Odysseus can be converted to increased fruit production when matched with a generative scion. This rootstock is ideal for glass greenhouses or harsh environment.

Resistances: HR: Tm:0

### Scarface F1

This variety is the solution against Nematode pressure. Scarface performs best when grafted to generative scions, and will increase yields by extending the production season longer than is possible with ungrafted plants. Scarface can be used in both heated and unheated greenhouse conditions.

Resistances: HR: Tm:0 | IR: Ma/Mi/Mj

## Cucurbit Rootstock

### Flexifort F1

Flexifort is bred for cucumber, melon and watermelon growers who are seeking a longer, healthier crop. This rootstock brings increased vigor and a high return of first quality fruits. Flexifort is an interspecific Cucurbita maxima and Cucurbita moschata cross that combines nicely with a wide number of varieties. It is resistant against several soil-borne diseases, as well as abiotic stresses such as drought, temperature extremes and salinity.

Resistances: HR: Fom:0-2,1.2/Fon:0,1/Foc | IR: Forc



Pepper Rootstock



Cucurbit Rootstock



# Resistances

Resistances in varieties of our crops will be coded (please, see our coding list on [www.enzazaden.com](http://www.enzazaden.com) for explanation), unless indicated otherwise.

Varieties claiming the same level of resistance against a specific pest or pathogen may exhibit a different resistance response due to a different genetic makeup of a variety. It is to be noted that if a resistance is claimed in a plant variety it is limited to the specified biotypes, pathotypes, races or strains of the pest or pathogen.

If no biotypes, pathotypes, races or strains are specified in the resistance claim for the variety, it is because no generally accepted classification of the cited pest by biotype, pathotype, race or strain exists. In this case resistance is only claimed against certain not further specified isolates of that pathogen. New biotypes, pathotypes, races or strains that may emerge are not covered by the original resistance claim.

**Immunity:** not subject to attack or infection by a specified pest or pathogen.  
**Resistance:** the ability of a plant variety to restrict the growth and development of a specified pest or pathogen and/or the damage they cause when compared to susceptible plant varieties under similar environmental conditions and pest or pathogen pressure. Resistant

varieties may exhibit some disease symptoms or damage under heavy pest or pathogen pressure.

- Two levels of resistance are defined:
- High resistance (HR): plant varieties that highly restrict the growth and development of the specified pest or pathogen under normal pest or pathogen pressure when compared to susceptible varieties. These plant varieties may, however, exhibit some symptoms or damage under heavy pest or pathogen pressure.
  - Intermediate resistance (IR): plant varieties that restrict the growth and development of the specified pest or pathogen, but may exhibit a greater range of symptoms or damage compared to highly resistant varieties. Intermediate resistant plant varieties will still show less severe symptoms or damage than susceptible plant varieties when grown under similar environmental conditions and/or pest or pathogen pressure.

Susceptibility: the inability of a plant variety to restrict the growth and development of a specified pest or pathogen.  
Tolerance: the ability of a plant variety to endure abiotic stress without serious consequences for growth, appearance and yield. Vegetable companies will continue to use tolerance for abiotic stress.

*Full explanation available on [www.enzazaden.com](http://www.enzazaden.com)*



# Enza Zaden is proud member of:



## Organic certification

Vitalis Organic Seeds is the organic subsidiary of Enza Zaden, breeding and producing globally 100% certified organic seed adapted to the cultural conditions of organic production systems.



**USDA NOP**  
We are certified as a handler for the National Organic Program of the United States Department of Agriculture with CCOF under Client Code pr1831. We are enrolled in the CCOF Global Market Access Program in compliance with NOP/COR (Canada Organic Regime) Equivalence Arrangement and the US/ EU Equivalence Arrangement.



**EKO**  
For the European and other select international markets our vegetable seeds are certified in compliance with EEC No 1359520\ NL-BIO-01 Regulation by Skal under number 014978.



**Lacon**  
For the European and other select international markets our herb seeds are certified in compliance with the EEC No 834/2007 Regulation by Lacon under certificate number DE-RP-003-00029-BCD#2020#83837-EN.

## Disclaimer

Descriptions, recommendations and illustrations in brochures and leaflets shall correspond as closely as possible to tests and practical experience and are subject to typographical and/or printing errors. This information shall be provided to assist professional growers and users, whereby variable local conditions must be taken into account. Under no circumstances shall Enza Zaden accept liability based on such information for deviating results in the cultivated product. Current information concerning the resistances is available on [www.enzazaden.us](http://www.enzazaden.us).



	Scientific name pathogen ISF	English name	Races/Strains	Code
Arugula				
Fungi	Hyaloperonospora parasitica	Downy Mildew		Hp
Basil				
Fungi	Fusarium oxysporum f. sp. Basilicum	Fusarium wilt		Fob
	Peronospora belbahri	Downy Mildew		Pb
Cucumber				
Viruses	Cucumber mosaic viruts	Cucumber mosaic		CMV
	Cucumber vein yellowing virus	Cucumber mosaic		CVYV
	Cucumber green mottle mosaic virus	Cucumber green mottle		CGMMV
Fungi	Cladosporium cucumerinum	Scab and gummosis		Ccu
	Corynespora cassiicola	Corynespora blight and target spot		Cca
	Podosphaera xanthii (ex. Sphaerotheca fuliginea)	Powdery Mildew		Px
Cucurbita maxima x Cucurbita moschata (Rootstock)				
Fungi	Fusarium oxysporum f.sp. radicis-cucumerinum	Fusarium crown and root rot		For
	Fusarium oxysporum f.sp. melonis	Fusarium wilt	0,1,2,1.2	Fom
	Fusarium oxysporum f.sp. niveum	Fusarium wilt	0,1,2	Fon
	Verticillium dahliae	Verticillium wilt		Vd
	Verticillium albo-atrum	Verticillium wilt		Va
Nematode	Meloidogyne incognita	Root-knot		Mi
	Meloidogyne javanica	Root-knot		Mj
Lettuce				
Viruses	Lettuce mosaic virus	Lettuce mosaic	1	LMV
	Tomato bushy stunt virus	Lettuce die-back		TBSV
Bacteria	Sphingomonas suberifaciens (ex Rhizomonas suberifaciens)	Corky root		Ss
Fungi	Bremia lactucae	Downy Mildew	16-36EU/1-9US	Bl
	Fusarium oxysporum f.sp. lactucae	Fusarium wilt	1,2	Fol
Insects	Macrosiphum euphorbiae	Potato aphid		Me
	Nasonovia ribisnigri	Lettuce leaf aphid	0	Nr
	Pemphigus bursarius	Lettuce root aphid		Pb
Melon				
Viruses	Melon Necrotic Spot Virus	Melon necrotic spot		MNSV
Fungi	Fusarium oxysporum f.sp. melonis	Fusarium wilt	0,1,2,1.2	Fom
	Golovinomyces cichoracearum (ex. Erysiphe cichoracearum)	Powdery Mildew	1	Gc
	Podosphaeria xanthii (ex Sphaerotheca fuliginea)	Powdery Mildew	1,2,3,5,3.5	Px
Insects	Aphis gossypii	Cotton aphid		Ag
Spinach				
Fungi	Peronospora farinosa f.sp. spinaciae (ex. Peronospora effusa)	Downy Mildew	1-17	Pfs

	Scientific name pathogen ISF	English name	Races/Strains	Code
Parsley				
Fungi	Plasmopara petroselini	Downy mildew		Pp
Pumpkin				
Viruses	Cucumber mosaic virus	Cucumber mosaic		CMV
	Papaya ringspot virus	Papaya ringspot		PRSV
	Watermelon mosaic virus	Watermelon mosaic		WMV
	Zucchini yellow mosaic virus	Zucchini yellows		ZYMV
Fungi	Podosphaeria xanthii (ex Sphaerotheca fuliginea)	Powdery mildew		Px
	Golovinomyces cichoracearum (ex. Erysiphe cichoracearum)	Powdery mildew	1	Gc
Pepper				
Viruses	Pepper mottle virus	Pepper mottle		PepMoV
	Potato Y virus	Potato Y	0,1,1.2	PVY
	Tobacco etch virus	Tobacco etch		TEV
Tobamovirus	Tobamovirus (ToMV:0-2, TMV, PMMoV)		0,1,1.2,1.2.3	Tm
	Tomato spotted wilt virus	Tomato spotted wilt	0	TSWV
Bacteria	Xanthomonas campestris pv. vesicatoria	Bacterial spot	1-10	Xcv
Fungi	Phytophthora capsici	Buckeye fruit and root rot		Pc
Summer Squash				
Viruses	Papaya ringspot virus	Papaya ringspot		PRSV
	Watermelon mosaic virus	Watermelon mosaic		WMV
	Zucchini yellow mosaic virus	Zucchini yellows		ZYMV
Fungi	Podosphaeria xanthii (ex Sphaerotheca fuliginea)	Powdery Mildew		Px
Tomato				
Viruses	Tomato apex necrotic virus	Tomato apex necrotic virus		ToANV
	Tomato mosaic virus	Tomato mosaic	0,1,2	ToMV:0-2
	Tomato spotted wilt virus	Tomato spotted wilt		TSWV
	Tomato yellow leaf curl virus	Tomato yellow leaf curl		TYLCV
Fungi	Fulvia fulva (ex Cladosporium fulvum)	Leaf mold	A,B,C,D,E	Ff
	Fusarium oxysporum f.sp. lycopersici	Fusarium wilt	0,1,2	Fol
	Fusarium oxysporum f.sp. radicis-lycopersici	Fusarium crown and root rot		For
	Leveillula taurica (anamorph: Oidiopsis sicula)	Powdery Mildew		Lt
	Oidium neolycopersici (ex Oidium lycopersicum)	Powdery Mildew		On
	Verticillium dahliae	Verticillium wilt		Vd
Nematode	Meloidogyne arenaria	Root-knot		Ma
	Meloidogyne incognita	Root-knot		Mi
	Meloidogyne javanica	Root-knot		Mj
Abiotic stress	Silvering			Si
Watermelon				
Viruses	Zucchini yellow mosaic virus	Zucchini yellows		ZYMV
Fungi	Colletotrichum orbiculare	Anthracnose	1	Co
	Fusarium oxysporum f.sp. niveum	Fusarium wilt	0,1,2	Fon
	Podosphaeria xanthii (ex Sphaerotheca fuliginea)	Powdery mildew	1	Px





enzazaden.us

Enza Zaden USA, Inc.

7 Harris Place

Salinas, CA 93901 U.S.A.

customer.service@enzazaden.com

Contact Enza Zaden toll free at

tel +1 855-800-ENZA (3692)

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