

Vegetable Seed Catalogue

USA & Canada 2019

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In this catalogue the varieties which are also available as organic seeds are marked as



Innovative by nature

Think as an industry

Produce – fruit and vegetables – is a big category with a high household penetration, regardless of the country or continent in question. While this makes produce a significant contributor to overall supermarket retail sales, finding growth in a mature market like the produce industry is not easy.

Mobile phone industry

Let's take the mobile phone industry as an example: for many years, mobile phone industry growth occurred simply due to more consumers buying and using cell phones. Little by little, the market started to saturate and the cell phone companies were forced to change tactics – rather than merely chase new users, they now had to add more dollars amongst current subscribers. Subsequently, their consumer messaging also had to evolve – while it began based on the necessity of a mobile phone, it soon moved to focusing on the need for a bigger data, text and calling plan, a fancier phone, access for the whole family, or reasons to choose one provider over another.

Inspire consumer

Driving growth in produce is much the same as making consumers spent more money on their latest new smartphone. To best understand how all players in the produce industry can work together to support greater consumption and spending, we have to put the consumer in the middle of our game plan. After all, in a scenario where consumers buy more produce, we all win – from farm to fork. As an industry, we have to inspire consumers to buy fresh produce and find ways to prompt them to spend more than they did before – preferably on our items or at our store – by continuously providing innovative products that enhance the consumer eating experiences.

Innovative by nature

At Enza Zaden, there is a team specifically focused on evaluating flavor profiles and post-harvest traits. By utilizing taste panels, phytochemical analysis and evaluating post-harvest handling, we can more accurately predict how a new variety will be perceived by the consumer and stand-up on the shelf. Other desired traits include drought tolerance, insect and disease resistance and high yield. In order to best select for these traits, Enza Zaden evaluates its genetic material under various management systems in multiple locations throughout the target region. This multifaceted information allows us to draw correlations among agronomic traits, consumer flavor preferences, color, and post-harvest capacity to select the most flavorful and shelf-life worthy cultivars.

In each of more than 20 programs, the breeding teams at Enza Zaden are ultimately focused on employing innovation to constantly rethink the way fresh produce can be grown, displayed and consumed.

Edited on Jan 2nd, 2019

Introducing 2019 new varieties





Lettuce





Lettuce | Butterhead

Green

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 also compatible for carton packs.

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

Barilla 🐯

Barilla is a medium to dark green, thick-leaved variety with a strong base and good volume. It is strong against internal tipburn and appropriate for late spring and early autumn crops.

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

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

Mirlo 🏶

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

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



lilagro



Barilla



Mirlo

Lettuce | Butterhead



Alkindu

Red

Alkindus 🏕

Alkindus has a beautiful dark red color and is suitable for full season production.

Resistances: HR: BI:16-26,28,32EU/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. Nice base, slow bolting and strong against tipburn.

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



Lettuce | Leafy

Green leaf

Bergam's Green 🏶

Bergam's Green has a large frame, dark green color and less tendency to head. 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. Sweet flavor and strong against bolting and internal tipburn.

Resistances: HR: BI: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

Red leaf

Red Mist *

Red Mist is a highly presentable lettuce with nice color contrast between red and green. Upright, V-shape helps prevent basal rot and packs well. Excellent weight for a red leaf.

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

Red Oakleaf

Cantarix *

Cantarix has dense heads with wide leaves and an attractive color variation. It can be cultivated in the spring and early autumn.

Resistances: HR: BI:16-26,28,32EU/1-9US/Nr:0/TBSV

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: BI:16-35EU/1-8US/Nr:0/TBSV | IR: LMV:1



Bergam's Green



ed Mist



Bellevue

Lettuce | Leafy



Lollo Bionda

llema 🏶

llema is an impressively voluminous green Lollo. It has a strong plant with nice curliness. Ilema has 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

Rossa

Fossey 🔻

Fossey is appreciated for the good volume, nice dark red color and well-filled leaves. Fossey can be grown the whole season.

Resistances: HR: BI:16-26,28,32EU/1-9US/Nr:0





Eazyleaf™is redefining top-shelf salad.

Eazyleaf™ is a one-cut lettuce, featuring brilliant colors and diverse leaf shapes. The 16 currently available varieties all reflect European tastes, with superior texture, loft and visual appeal for the North American market.

New varieties for 2019 include:

Ezthana – Featuring crisp strong green Tango leaves with a sweet crunch, Ezthana is ideal for high density planting and whole head packs.

Greenwood – The largest of the green Tangos, Greenwood is fast-growing with slow bolting capacity, and features the full Bremia package and red aphis resistance, ideal for organic production.

Burgandy – A stunning deep red Tango with narrow attachment, featuring a thick yet pliable texture, with a slight ruffle for more loft and a broader leaf habit. Ideal as a whole head, cut leaf or sandwich leaf.

Eazyleaf™ offers the unique benefits of:

- Higher yield and mechanized harvest for commercial growers.
- Simple one-cut harvest for smaller farms and greenhouses.
- Significantly reduced shrinkage and longer shelf life for shippers.
- Premium quality and reduced waste for restaurants and home kitchens.
- Thicker texture and attractive, equally-sized green and red leaf shapes for consumers.

The inspiration

The inspiration for Eazyleaf™ broadly stems from our global vision to consistently breed for better quality vegetables and fruits. In determining the direction for our premium leafy products, we also looked at European culinary trends, North American sensory preferences, and the growing consumer appetite for meal salads both at restaurants and at home. With our Eazyleaf™ one-cuts, we differentiate ourselves through:

- Year-round availability of our portfolio.
- Notable loft and texture maintained in the packaging and onto the plate.
- Superior variety of leaf shapes and colors, including multiple greens and high-gloss dark reds.
- Availability in both conventional and organic form, with excellent resistance packages.

The future

Through ongoing innovation, Enza Zaden is committed to continued leadership and innovation in leafy products. 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.

Lettuce | Eazy | leaf | Green Tango



Ezthana



Ezrilla 🍪

Ezrilla has incized, dark green outer leaves and a sweet, blanched center. We highly recommend this variety 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:16-35EU/1-9US/Nr:0/TBSV | IR: LMV:1

Ezthana | new 😵

New green Eazyleaf™ to add to the robust portfolio of Enza Zaden's Eazyleaf™ assortment brings 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:16-35EU/1-9US/Nr:0/TBSV | IR: LMV:1

Eztron 🍪

Vivid green cut leaf variety with superior texture and a flavorful crunch. A much improved Eazyleaf™ green Tango in the one-cut assortment. Good speed with improved bolting tolerance. Resistances: HR: BI:16-35EU/1-9US/Nr:0/TBSV | IR: LMV:1

Greenwood 😵

Greenwood is the largest of the green Tangos. It offers the fastest speed with slow

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

Red Tango

Brentwood 🍪

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:16-35EU/1-9US/Nr:0 | IR: Fol:1

Burgandy (E01L.30413) **1 new**

New 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:16-35EU/1-9US/Nr:0

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: BI:16-35EU/1-8US/Nr:0/TBSV | IR: LMV:1



Brentwood



Burgandy (E01L.30413)







Red Oakleaf

Boynton | new 🏶

Semi-savoyed red Oakleaf with upright plant habit, uniform leaves and great field holding capabilities.

Resistances: HR: BI:16-32EU/1-9US/Nr:0/Pb/TBSV

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: BI:16-35EU/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: BI:16-35EU/1-8US/Nr:0/TBSV | IR: LMV:1

Molokai | new 🏶

Vigorous red Romaine for wash leaf programs with deep red penetration, uniform leaves and full Bremia package with red aphid resistance

Resistances: HR: BI:16-35EU/1-9US/Nr:0/TBSV

Red Butter Romaine

Stanford **

This variety forms a beautiful rosette of uniform, pliable leaves that are dark red on top and green at the base. Stanford combines the leaf shape and texture of a butterhead, with the upright growth of a mini romaine. To harvest and display as a mini head, plant at 6 in. (15 cm) spacing. When planted at high density (3-4 in. / 8-10 cm), this one-cut lettuce adds a unique leaf shape and color to any salad mix.

Resistances: HR: BI:16-35EU/1-9US/Nr:0/TBSV



Buckley



Molokai



Stanford

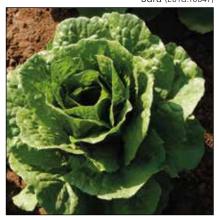
Lettuce | Romaine



Carnero



Jara (E01G.10647)



Mezquite

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: BI:16-27,29,32,34EU/1-8US/TBSV | IR: Ss

Carneros 🐯

Carneros has a great Bremia package as well as TBSV suiting it ideal for Salinas Valley spring and fall.

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

Clouny 🏶

Clouny is a medium green full Romaine with semi-smooth, glossy leaf texture. Slot in spring or fall for best performance.

Resistances: HR: BI:16-32,34EU/1-8US/Nr:0/TBSV | IR: LMV:1

Coastal Star 🕏

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

Resistances: IR: Ss

Jara (E01G.10647) | new 😵

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

Resistances: HR: BI:16-35EU/1-9US/FoI:1/Nr:0/TBSV

Mezquite 🏶

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

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

Green Romaine

Rainier *

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

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

Tuolomne 🏶

Extra-large Romaine with a very substantial frame. Smooth leaved, medium green plant with a high yield. A broadly adaptable, consistent performing variety for both whole head and processing markets.

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

Blonde Romaine

Colbiana 🏶

Blonde Romaine boasting great weight, uniformity, straight ribs and volume allowing for increased yields for processors.

Resistances: HR: BI:16-32,34EU/1-8US/Nr:0/TBSV

Weaverville 🕏

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

Resistances: HR:BI:16-32.34EU/1-8US/Nr:0/TBSV



olomne



Colbiana



Weaverville

Lettuce | Romaine



Xalbadora

Green Mini Romaine

Xalbadora 😵

Xalbadora is a medium green Mini Romaine. Heart has good blanching for nice contrast. Resistances: HR: BI:16-35EU/1-9US/Nr:0/TBSV | IR: LMV:1

Romaine size classification		
Lettuce type	Heart length	
Full	12 in. / 30 cm.	
Midi	10 in. / 24 cm.	
Mini	7 in. / 16 cm.	
Little Gem	4.5 in. / 11 cm.	



Lettuce | Little Gem

Green

Dragoon 🏶

Dragoon is a well-filling Little Gem that matures slowly and keeps a short core. Resistances: HR: BI:16-27,29,32,34EU/1-8US/Nr:0/TBSV | IR: LMV:1

Tortola | new 🕏

Compact green Little Gem ideal for multi pack program in clamshell or as carton pack.

Resistances: HR: Bl:16-35EU/1-9US/Fol:1/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: BI:16-21,23-26,28-35EU/1-9US/Nr:0/Pb I IR: LMV:1/Ss

Red

Truchas 🏶

A Mini Romaine/Little Gem type that has 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: BI:16-35EU/1-9US/TBSV | IR: LMV:1



agoon



ewham



Truchas



Lettuce | Iceberg

Bandelier

Bandelier is a large heading spring variety for possible carton and processing markets. Resistances: HR: BI:16-27,29,31,32,34EU/1-9US | IR: Ss

Breckenridge

Summer type, produces a round head type with great fill and great head protection. Breckenridge has good tolerance to tipburn and bolting compared to other Salinas types in same slot, versatile for processing or carton. Very consistently uniform and has shown great size and weight through summer.

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

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: BI:16-27,29,32,34EU/1-8US | IR: Ss

Denali

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

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

Dillon 🔻

Nice internal fill and conformation. The head size and weight increases in hot weather, and performs best in late summer on the coast or in warmer climates.

Resistances: HR: BI:16-35EU/1-9US/Nr:0/Pb

Eblin

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

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



Bandelier



Denali



illon

Lettuce | Iceberg



Henderso



Somerset



Steamboat

Henderson

Henderson is a spring Iceberg that produces a medium to large head and possesses strong characteristics against tipburn.

Resistances: HR: BI:16-32,34EU/1-9US/Pb/TBSV | IR: Ss

Midway

Midway is an early spring Iceberg variety. It is a sure heading Iceberg with excellent head size and cover. Because of its unique qualities, Midway can have a longer harvest window than most varieties.

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

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: BI:16-29,32,34EU/1-9US/TBSV | IR: LMV:1/Ss

Somerset

Somerset is a summer leeberg 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: BI:16-29,32,34EU/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: BI:16-27,29,32,34EU/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: BI:16,21,23,32EU/1-6US | IR: Ss

Westminster

Westminster is a spring type that produces a round head with smooth ribs and good head protection. Fresh market type. It is consistently uniform with great fill.

Resistances: HR: BI:16-29,31,32,34EU/1-9US/Pb/TBSV | IR: LMV:1

	Season	Market use
Bandelier	Spring	Carton and processing
Bayfield	Spring	Carton
Breckenridge	Summer	Carton and processing
Boulder	Spring	Processing
Denali	Early spring to summer	Processing
Deuce	Fall	Carton
Diamond	Summer and fall	Carton
Eblin	Early spring and fall	Processing
Henderson	Late spring and fall	Carton and processing
Icemaker	Fall	Carton and processing
Magosa	Fall	Carton and processing
Midway	Summer and fall	Carton
Pennylea	Fall	Carton and processing
Pueblo	Spring and summer	Carton and processing
Somerset	Summer	Carton
Steamboat	Summer	Processing
Telluride	Summer and early fall	Carton and processing
Vail	Spring	Carton
Westminster	Late spring and early summer	Carton and processing



Telluride



estminster

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Lettuce | Babyleaf











Green Romaine

Pensacola 🏶

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

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

Red Romaine

Deronda

Thick textured red Romaine for Babyleaf. Narrow attachment point and dark red color. Resistances: HR: BI:16-35EU/1-9US/Nr:0

Green Oakleaf

Clearwater *

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

Surfside 🕏

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

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

Red Oakleaf

Blade 🏶

A beautiful, upright, cherry-colored Oakleaf with good field holding capacity and shelf life. Resistances: HR: BI:16-35EU/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:16-35EU/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:16-35EU/1-9US/Nr:0/TBSV | IR: LMV:1

Green Tango

Sycamore (E01K.30290) new

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:16-35EU/1-9US/Nr:0 I IR: LMV:1

Redleaf

Tamarindo 😵

Tamarindo is a Redleaf variety with improved texture and yield. Tamarindo has a dark red leaf color and an erect habit for ease of harvest.

Resistances: HR: BI:16-30,32,33EU/1-9US



elinet



Sycamore (E01K.30290)



Tamarindo



Endive





Leonida



Curled

Curlesi | new 😵

Curlesi is a new addition to our endive assortment, 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 wellfilled, 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.

Primaleta 🍪

Primaleta has strong growing ability for cold season production. Best when grown for early spring harvest, Primaleta has fine ribs and strong bolt tolerance. Primaleta is slower growing than Maratoneta to allow for successional harvest. Uniform, large heads have the potential for high yields with densely filled, well-blanched interiors.

Escarole

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.

Seance 🍪

A finely ribbed variety, Seance is voluminous with an erect habit, good heart filling and clean base. Easy to harvest and bolting slowly under hot conditions.

Tres fin

Benefine

An impressive Tres fin type with a shiny dark green exterior color and well-blanched interior. Benefine has 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

Selvatica 😵

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

Anastazia 😵 RMTD

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 🤻 RMTD

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.

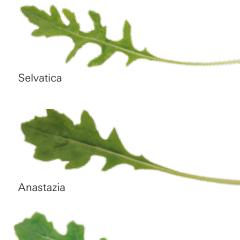
Jolizia 🤻 RMTD

Thick-textured wild arugula with good unformity and intermediate resistance to Downy Mildew. Resistances: IR: Hp

Letizia 🤣 RMTD

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







Grazia







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

Herbs





Resistance Makes The Difference

Cooking is hot, and fresh herbs are part of that trend. commercialized the basil variety 'Elidia' that is resistant In the Western World the demand for live herbs in pots, in clamshells with roots intact and/or freshly cut has been steadily increasing for many years now. No surprise there, because what could be easier and more satisfying than snipping a fresh bouquet garnish we now offer 'Keira' basil. Simultaneously, we have on your own window ledge, balcony or patio? Enza Zaden supports this development by offering both growers and end users herb varieties that are less susceptible to diseases.

Focus on resistance

Around ten years ago we tightened the breeding objectives of several herb varieties to gear them more to the needs of our customers and end users. They want plants with good resistance and year-round homogeneous, reliable production. Therefore, we now actively focus on resistance and quality traits breeding by selecting and crossing specific genetic characteristics that make the plants resistant or less susceptible to common diseases with extended shelf life. Important in the breeding process are resistances to the most common fungal diseases and tolerance of low temperatures in parts of the supply chain. And year-round production and supply are an absolute must for the large, specialist commercial nurseries.

Successful varieties

The focus on genetic resistance and extended shelf life has had the desired effect. In 2016, we officially launched our first Downy Mildew intermediate resistant basil variety on the market with overwhelming success, which varieties have the 'Eleonora'. Since then, we released another Downy Mildew intermediate resistant basil variety targeted explicitly for hydroponic production, 'Emma'. We also

to Fusarium, which can cause root rot. Elidia also produces high yields of large leaves and excellent field standability. For hydroponic growers seeking a variety that has improved tolerance to cold in the supply chain, also introduced parsley varieties with intermediate resistance to Downy Mildew: a large flat-leaf parsley variety with high yields and a brilliant glossy green color 'Peione', and a dark curly very uniform parsley variety 'Wega' - perfect for pots or bunch."

Second generation

We refer to them as the herb varieties of the 'second generation': varieties that have an attractive color and good flavor, and at the same time ensure more reliable cultivation, and better shelf life keeping a quality product at consumers' homes. They are 'so to speak' a bit more forgiving in conditions that are not ideal, which can happen in the sales channel and consumers' homes.

Quality mark

The coming years Enza Zaden will continue to steadily expand its range of resistant and tolerant herb varieties for sale in pots. To indicate these second generation herb varieties Enza Zaden developed a quality mark, called 'Resistance Makes The Difference'. With this quality mark we can indicate these varieties to our customers. In that way they know immediately, special characteristics that will enhance their production and consumption experience.



Herbs



Elidia

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 or bags or processing.

Eleonora 😵 RMTD

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

Resistances: IR: Pb



Genoveser type with intermediate resistance against Fusarium. Compact growth, ideal for pot production. Shiny dark green leaves. Late bolting.

Resistances: IR: Fob

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.



Basil (Ocimum basilicum)

Emma | new 🏶

The next generation of our Downy Mildew tolerant basil varieties, Emma is particularly well-suited for indoor pot production. Emma has short internodes and uniform cupped leaves.

Resistances: IR: Pb

Genoveser 😵

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



Genovese type, suitable for pot production and for fresh market. Excellent shelf life. Cold tolerant, perfect for long shipments.

Rosie 🤻

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

Piccolino | new 🏶

Piccolino is a specialty 'Greek' type basil that produces uniform, compact plants with small, aromatic leaves. The globe shape plant habit is particularly well-suited for pot production or for use in ornamental plantings.

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.



nma



Piccolino



Staro

Herbs







Cilantro (Coriandrum sativum)

Marino 🍪

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

Dill (Anethum graveolens)

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

Parsley (Petroselinum crispum) | Curly leaf

Highly uniform, double curled parsley with dark green upright leaves and excellent uniformity. Very good shelf life. Suitable for pots or field production.

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 or greenhouse production for fresh or dried product.

Watercress (Nasturium officinale)

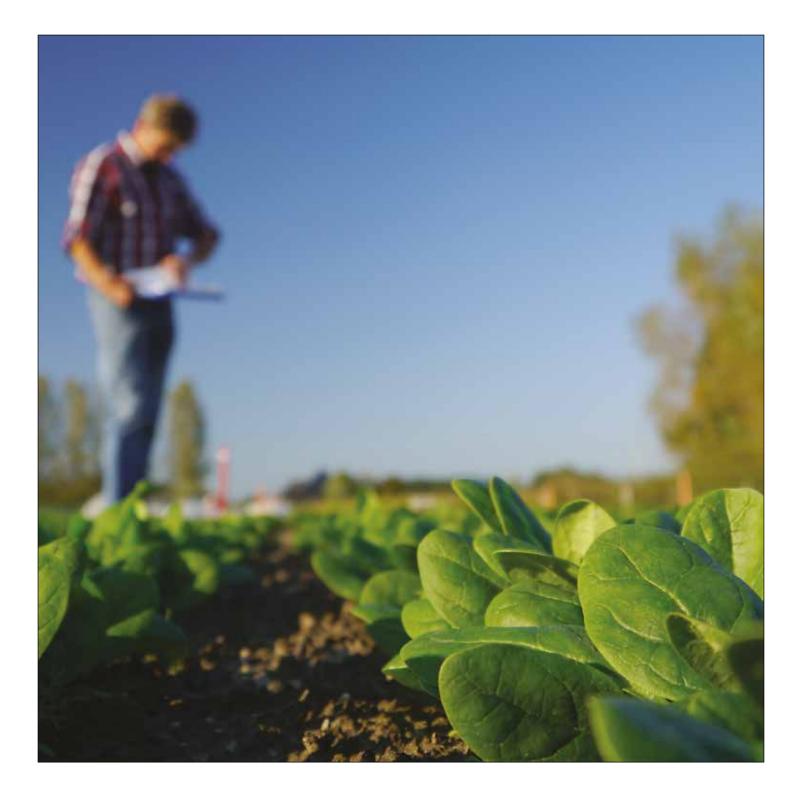
Avona 🍪

Avona is our standard variety used for pot and open field production. An excellent addition to Babyleaf blends.



German Winter





Spinach

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. Dark elongated oval leaves with good uniformity at maturity.

Resistances: HR: Pfs:1-14,16

Corvair F1 🏶

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

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

Escalade F1 🕏

This 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

Shelby F1

Shelby is an excellent transition variety for spring and fall. Shelby offers consistency and uniformity in those times of the season with variable temperatures.

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

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.



Acadia



Corvair



Escalade



Shelby



Led by Breeder Barry Fararra, Enza Zaden's broccoli program is in growth mode. Fararra works out of California with Junior Breeder Miguel Macias, with global support from additional researchers in Australia, Spain, Holland and Italy. The team's extensive combined experience, and their commitment to develop new hybrids with superior heat tolerance and disease resistance, has their sights set on brassicas leadership for Enza Zaden.

For 2019, Enza Zaden's broccoli variety Corato demonstrates the foundational genetics to be reflected in future varieties. Dark green Corato performs well in all conditions, including under heat, while maintaining an attractive floret structure. Uniquely informed by market insights, pipeline initiatives include expanded work on heat tolerance for the whole head market served by growers in Spain and California, and strong resistance to disease pressure, particularly for the floret market served by Mexican growers. Both Fararra and Macias enjoy the complexities of broccoli breeding, and say they could not have a better team, or be more excited about the future for brassicas at Enza Zaden.



Broccoli

Corato F1

Corato produces dark green large heads with tight lobes. The plant grows strongly and produces heads after 70-72 days from sowing. Corato performs well even under hot conditions keeping an attractive floret structure with good market presentation. It is recommended for the main season in all major broccoli growing regions.



Corato F



Cauliflower



Bighorn (E40W.440)



Marc



Nebu

Bighorn F1 (E40W.440) | new

California Coastal variety with a large plant frame and an adequate internal wrap. It is known for its exceptional bright white color and substantial head density. Suitable for harvest in the main season and transition slots in the Salinas and Santa Maria Valleys. 85-100 days.

Janvel F1 😵

Dense, well-filled curds make this an attractive variety for both fresh market and processing. Tall leaves of this vigorous plant provide excellent sunburn protection for curds. Recommended for late summer and fall harvest.

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 | new

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.

Fennel

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.

Idillio F1 🏶

Idillio is a vigorous late season fennel with good frost tolerance. The foliage is light green and bulbs are uniform, round, smooth and shiny. Idillio stands out for its postharvest quality, especially its minimal oxidation at cut points. Idillio should not be planted in the heat, and is particularly well-suited for fall and winter production in coastal climates and the Pacific Northwest.



Idillio F1

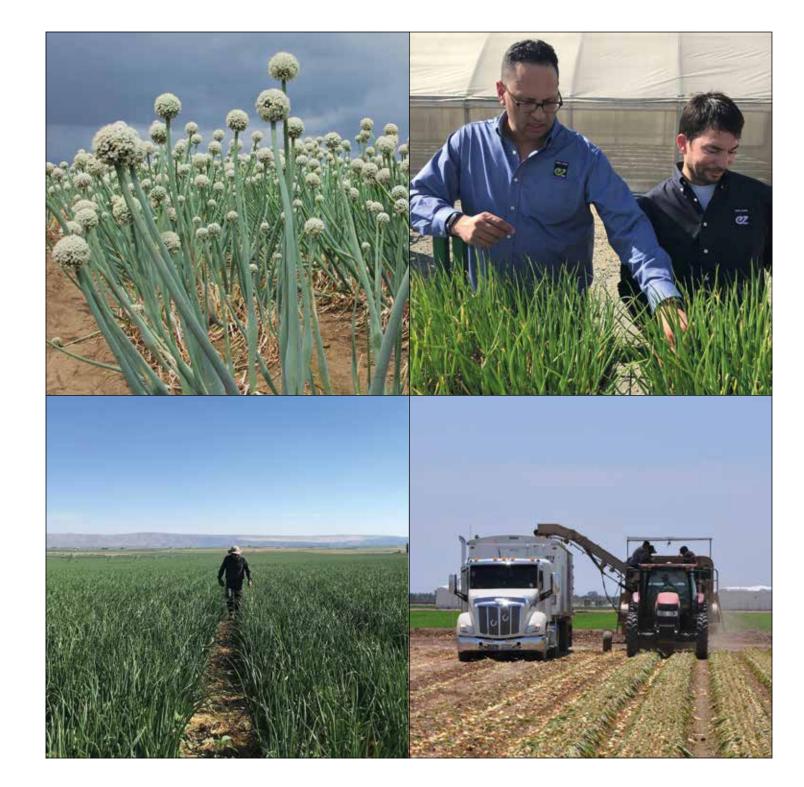




The Enza Zaden onion team is focused on innovation by efficiency. Breeders Luis Maas and William "Zeb" Rehrig explain that the team is leveraging the depth of Enza Zaden's longstanding onion program and 100+ year old genetics to continually enhance quality, yield and resistances for various growing conditions. Natural but more efficient breeding techniques using genetic trait and disease resistance markers will assist the team in achieving its 'speed to market' goals for new varieties.

Pipeline varieties will add depth to the current portfolio, with unique varieties that grow well in both tropical and North American conditions, and offer good root disease resistance with good foliage. They will also offer capacity for mechanical harvesting, as well as enhanced shelf life, color and flavor.





Onion



Cabernet



Monastre



Red Emperor

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.

Short day - Yellow

Copperhead F1 (E61S.10346) | new

Early maturity variety, medium to jumbo sizes, perfect round deep shape. The outstanding bulb uniformity and great firmness makes Copperhead ideal for mechanical harvest.

Samurai F1

Samurai is a mid-short day variety with medium to large size 2.8-4.3 in. (70-110 mm). Single centers and good skin retention.

Francesca F1 🛠

Francesca is a mid to late short day variety with tolerance to pink root rot and strong tops. The exceptional bulb firmness makes this variety suited for mechanical harvest. Bulbs are approximately 3 in. (75 mm), globe-shaped and uniform.

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 (E61D.06273) | new

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



Francesca



oriella



Canarana F1

Leek



Cherokee F1



Chinook F1



Comanche F1

Cherokee F1

Cherokee is a highly uniform leek for fall harvest. Upright, dark blue foliage is strong against disease. Cherokee is easy to peel and holds well in the field.

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 | new 🐯

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.

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.

Takrima F1 🕏

Takrima is a highly uniform leek with upright plant habit and green to blue green leaves. The long, straight white shanks are of excellent quality; highly shelf blanching.

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

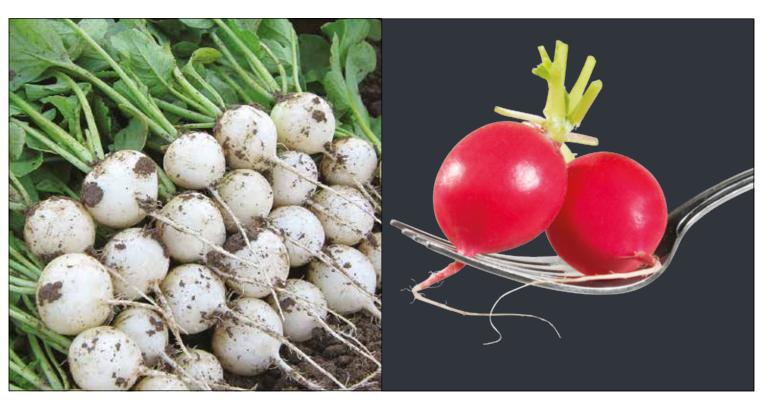
Open field hybrid for spring and autumn crops. The round and brilliant red bulbs have excellent uniformity, good internal quality, are cracking tolerant and are strong against Peronospora. Strong, dark green foliage for manual and mechanical harvest.

Pearl 🔻

A white smooth round radish with a small green neck for open field production. Very vigorous growth, good resistance to cracking. Often used as a processing radish in cello bags or in fresh bunches due to its strong tops.



Celesta



Squash | summer



Green Machine



Kopana



Yellowfin

Green zucchini

Cash Machine F1 | new 😵

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

Dunia F1 🍪

The plant 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 Midwest and East Coast fields 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

Kopana F1 🚯

Kopana is a dark green zucchini with heavy flecking selected for high tunnel production in the spring. Plants are vigorous, while maintaining an open, well-balanced habit. Selected to set fruit under cool conditions, Kopana works best in the presence of some natural pollinators. Resistances: IR: Px/ZYMV/WMV/PRSV

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

Romanesco

Cassia F1 I new 😵

This hybrid romanesco zucchini boasts a vigorous, open, upright plant that is highly uniform and productive, even in low fertility environments. Cassia does well in cooler conditions, and growers will appreciate its more compact habit compared to traditional romanesco varieties. Fruits are straight with grey-green ribbing. Attractive yellow blossoms adhere strongly to the fruit, creating a vibrant and unique market display.

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

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

Pumpkin

Halloween

Bellatrix F1 | new 🐯

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





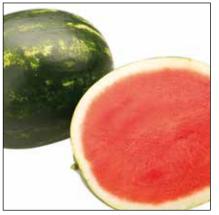
Cassia F1



Bellatrix

Enza Zaden I 47 46 | Enza Zaden

Watermelon



Red Garnet

Red Garnet

Red Garnet is a prolific dark green crimson type seedless watermelon that has shown wide adaptability in trials in the eastern US and Texas. The strong vigorous plant produces uniform 16-20 lb oval fruit with deep red flesh in about 84 days.

Red Opal

Red Opal has shown itself to be a very prolific seedless watermelon with a concentrated set of fruit. The light green background with a medium dark green stripe contrasts well with the bright red internal flesh color. The uniform oval fruit mature in about 84 days with weights ranging from 15-19 lbs.

Red Amber

Red Amber has a strong, vigorous plant that produces a uniform set of high quality oval fruit. The very dark red interior has a crisp texture and contrasts well with the medium green background and medium dark green stripe. Averaging 16-20 lbs, the fruit mature in approximately 89 days.



Melon

Fully netted 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 | new 😵

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. Fruit are uniform and round, with very good shelf-life. Fruit size: 12s and 9s.

Resistances: HR: Fom:0,1,2. I 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:0-2/MNSV I 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



zta



irreno



Divergent



Pepper | Blocky

Green to red

Beachcraft F1 (E20B.30082) | new 🐯

Our newest bell pepper, 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 (E20B.30160) | new

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 (E20B.30162) | new

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 (E20B.30161) | new

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

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



Beachcraft (E20B.30082)



Placepack (E20B.30160)



Provider (E20B.30161)

Pepper | Blocky



Aba



Delirio



Mozart F1

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

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, LIR: 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

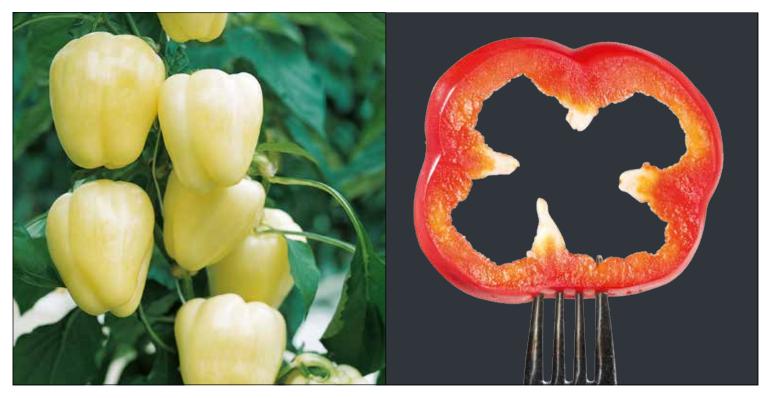
Bianca F1

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



Teguila



52 | Enza Zaden | 53

Pepper | Diverse







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 🐯

This tasty hot pepper has good heat and matures to a beautiful chocolate color. Medium-sized fruit are thick walled and have a brilliant dark green color prior to ripening. The plant 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 wellcovered 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: MaMiMj

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

Eggplant

Annina F1 (E37H.01704) | new 😵

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 halflong, 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 F1 (E37H.01704)



Tomato





Tomato

Determinate beef

Skyway 687 F1 🏶

With its high quality fruits, this round beef determinate variety 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

SunFresh F1 | new 🏶

This broadly adaptable hybrid 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. Additionally, it brings value to the organic growing industry considering its strength against disease and reduced fertilization needs.

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

Winterhaven 163 F1 🍪

With its strong vigor and desirable plant architecture, this mature green determinate variety 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

Marmande

Marsalato F1 | new 🏶

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



SunFresh



Winterhaven 163



Marsalato

56 | Enza Zaden

Tomato



Sakura



Toroniina



Montesino

Red 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

Orange cherry

Toroniina 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

Red grape

Montesino F1 😵

Montesino is a 'Santa' type grape tomato for production in open field and unheated greenhouses. Sweet, tasty fruits with medium to early maturity. Strong plant habit that easily sets high yields of fruit. Mini-plum shaped fruits that weigh on average 0.35-0.5 oz. (10-14 gr).

Resistances: HR: ToMV:0-2/Fol:0

Orange grape

Matthew F1 🕏

Matthew combines a vigorous plant habit with nice orange colored grape tomatoes. Very attractive fruit with good flavor that is early maturing. It performs best in open field and unheated greenhouse year-round. Well-balanced plant with good vigor producing fruits of 1.2 oz. (35 gr).

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

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





Granadero



Pozzano



Cucumber

Long types

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

Socrates F1 🍪

Socrates F1 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



vria



Katrina

Rootstock

Tomato Rootstock

Espartano F1 (E16R.40846) | new 🏵

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/Ma/Mi/Mi

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: TSW/V/Ma/Mi/Mi



Pepper Rootstock

Odysseus F1 | new 🏵

Odysseus is our newest pepper rootstock 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 🍪

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

Especially 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

Resistances in varieties of our crops will be coded (please, see our coding list on 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



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 834/2007 Regulation by Skal under number 017981.



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#2016#55761-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.

	Scientific name pathogen ISF	 English name	Races/Strains	Code
Arugula	Soloniano namo parnogen lei	Lingilott flattio	114666761141116	Joan
Fungi	Hyaloperonospora parasitica	Downy Mildew		Нр
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		Мј
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	16-35EU/1-9US	BI
	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	1-16	Pfs

	Scientific name pathogen ISF	English name	Races/Strains	Code
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
Rucola				
Fungi	Hyaloperonospora parasitica	Downy Mildew		Нр
Basil				
Fungi	Fusarium oxysporum f. sp. basilicum	Fusarium Wilt		Fob
	Peronospora belbahrii	Downy Mildew		Pb
Parsley				
Fungi	Septoria petroselini	Septoria blight		Sp
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