



International Catalogue

Sharing a healthy future



It's all about salads!

Our ambition is to share the fun, joy and vitality of salad vegetables all over the world. Love my Salad is an interactive platform for salad lovers, consumers and professionals. Anyone with a passion for fresh salads and vegetables can join in, promote their products and connect with consumers both online and offline.

It's important and worthwhile! After all, our aim is to stimulate worldwide vegetable consumption. Love my Salad is an initiative of Rijk Zwaan, who has decided to work together with an ever-growing community of contributors, growers, chefs and salad lovers.

What can we do for you?

Love my Salad connects you to a global audience of people who are interested in what you have to offer. Promote your products to hundreds of thousands of salad lovers and inspire them to consume even more vegetables.



- Promote your product by featuring it in stories, blogs and recipes
- Promote your product by enabling people to taste it
- Promote your product by presenting it in stores, at events and online

How would you like to promote your business?

info@lovemysalad.com



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Legend Rijk Zwaan icons

	HR = High resistance
	IR = Intermediate resistance
	Organic
	Convenience
	Industry
	Hydroponics
	Sensational Flavours
	Sensational Snacks
	Sensational Ingredients
	Sensational Traditions
	NCT = Non Chemical Treated
	Blue leaf
	CGMMV resistance
	Lt Defense
	Ag Defense



Dear customer,

De Lier - We are proud to present to you our latest International Catalogue which provides an overview of our never-ending stream of new and improved varieties. However, we realise that good varieties alone are not enough.

We work with a large team of experienced crop advisors from all over the world. They are right at the heart of their markets and can give you expert advice, tailored to local circumstances. Moreover we are eager to hear your individual wishes so that we can further improve our

assortment and services. With the same aim in mind, we would also be very happy to meet you personally at one of our many international demo fields.

We wish you lots of success choosing your varieties for this season, and look forward to meeting you!

Marco van Leeuwen
Board of directors

Kees Reinink

Ben Tax

Salinas

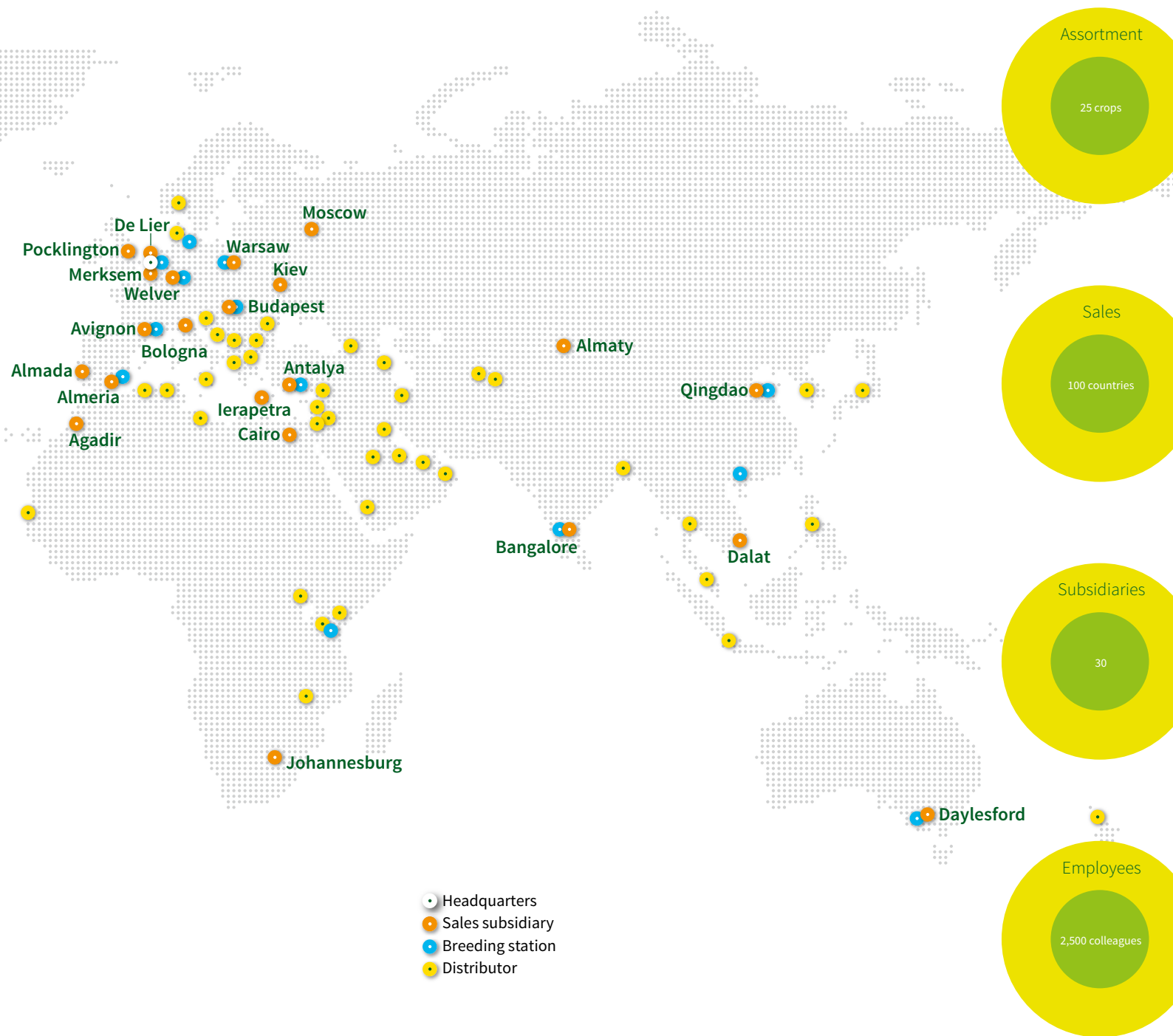
Culiacán

Guatemala

Holambra

Santiago

Buenos Aires





Our identity



Rijk Zwaan is a family owned company, established by Rijk Zwaan in 1924. The last decades have been characterized by a fast international expansion and an increasing role for research. Rijk Zwaan has always been a family company, except for the period 1986-1989, when BP owned the company. After a management buy-out by Ben Tax, Anton van Doornmalen and Maarten Zwaan (a nephew of Rijk Zwaan), the company returned into family hands. This period has been very important for Rijk Zwaan. Ever since, the whole organization is focused on continuity.

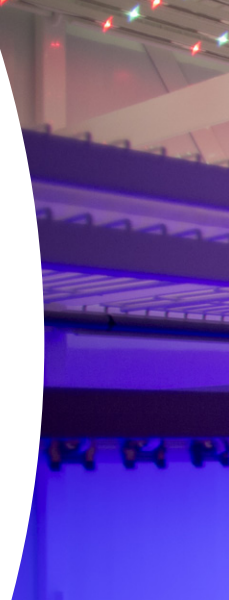
Rijk Zwaan has a unique company culture. Part of this culture is a careful selection when hiring new employees, focused on the will to work together. This leads to a good team spirit, loyal and involved employees, and long term employment. A key element of the Rijk Zwaan company culture is an entrepreneurial spirit, with plenty of room for creativity and innovation. We also stand for friendly, open and clear contact with each other, and with our partners. Along with this go high moral standards and values, both internally and in our external business dealings.



Our mission

Especially for the last 25 years Rijk Zwaan showed an increasing growth. This is not a goal in itself, it serves the wish of management and shareholders to stay an independent family company, also at the very long term. We also grow because we see chances. The world's population is growing rapidly and the resources are limited. This presents both opportunities and challenges. With our highly motivated employees' extensive experience and our numerous long-term collaborative partnerships as the basis, we are keen to make our contribution to a healthier future.

Together with our partners
we want to actively contribute
to the world's food supply
and stimulate
vegetable consumption
by laying the foundations
for healthy and
appealing vegetables.



Continuous investments in R&D

30% of turnover

The market keeps on asking for further improvement. This is why every year we invest 30% of our turnover in R&D. Next to techniques on cell and molecular level, which enable our breeders to develop new varieties faster and more efficiently, our biochemical research gives us better insight in taste and health aspects. Furthermore, we try to further improve our seed quality and develop new disease resistances.

Worldwide collaboration

A substantial part of our research is done in cooperation with external partners. We have a large network of research institutes and universities all over the world, to join forces and exchange knowledge. Besides, we also participate in Keygene where we execute pre-competitive research in the field of molecular techniques and bioinformatics.

New research fields

Rijk Zwaan is getting an ever better insight into the molecular composition of plants. With marker technology, important genetic differences between plants are, as it were, made visible, and this opens a new world of possibilities. To make optimal use of these possibilities, and to be able to work with the large amount of numbers, we set up complete new working areas like bioinformatics and quantitative genetics.



We contribute to the world food supply, by developing local varieties and by transferring our experience and knowledge to local farmers in rural areas.



We contribute to biodiversity by creating new varieties. By describing, characterising and propagating genetic source material we help preserve genetic variation for future generations.



Product Lines

As a company that develops vegetable varieties and sells the seeds produced from them, Rijk Zwaan is right at the start of the food chain. We make a significant contribution to the health and well-being of people all over the world. That is an exceptional responsibility, and we share it with our partners.

In fresh produce a worldwide shift is occurring towards a more market-orientated approach. Vegetable varieties have to live up to the expectations of an ever-greater number of chain partners. We create new opportunities by sharing knowledge and collaborating intensively.

Customers' needs have changed considerably over the past 10 years, but by staying close to the market we aim to devise solutions that benefit the entire chain. Nevertheless, all our chain partners have specific demands for their own customers. In response, we are proud to present our product lines based on customer needs. Every product line meets at least one of these needs and offers a range of varieties in line with our partners' requirements.





Convenience



by Rijk Zwaan

Convenience

As the market leader in lettuce, Rijk Zwaan is at the centre of the convenience market. We create new products in special breeding programmes which are aimed at - among other things - shelf life, colour and flavour. We are still developing new varieties which fulfil the specific wishes of our partners. This results in a broad range of varieties specifically suitable for the fresh-cut market.

One example of a successful convenience product is Salanova®, a range of lettuce types that, after just one cut, fall apart into countless amounts of small leaves. Another example is our snack range, which offers varieties very suitable as a healthy 'betweenmeal' treat. A major trend is harvesting lettuce mechanically, making cutting in the factory obsolete. Our Salanova® Crispy varieties are absolutely ideal for this.

Please visit our website: [Products&Services/Product Lines/Convenience](#) for our on-line catalogue.

For more information you can contact our colleague Bauke van Lenteren

RZ Contact

Bauke van Lenteren

Specialist M&BD Convenience & Leafies

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Organic

Rijk Zwaan supports organic agriculture as an environmentally friendly, sustainable and healthy cultivation system. Since 1992 we have been working to offer a wide range of organically produced vegetable seeds, which fully meet the organic seed requirements as recognized by all European Certification bodies. Rijk Zwaan is registered with skal as well as the NOP USDA certification for the USA.

Our wide range of top quality vegetable varieties has been thoroughly tested and offers organic professional growers the latest advances in pest and disease resistances, robustness, taste and shelf life. We are confident that

our organic range will contribute to an optimal organic production and product!

You can find our complete range in our Organic catalogue. For more information about the Organic assortment you can contact our colleague Heleen Bos.

RZ Contact

Heleen Bos

Specialist M&BD Organics
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Industry ❄️

By conserving vegetables almost immediately after harvesting, the richness of nature can be optimally preserved. Frozen, canned or dried vegetables enable consumers to prepare a wide variety of healthy meals conveniently and affordably, which is why Rijk Zwaan supports this industry with the right varieties.

All these varieties meet the most important traits for industrial produce, like a long harvesting period, a good storage life after harvesting and a good processability. For more information about our Industry assortment we refer to our tables in this catalogue or you can contact our colleague Johan Decroos.

RZ Contact

Johan Decroos

Account Manager

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Sensational Flavours

Rijk Zwaan is striving to create better-tasting vegetable varieties. Together with chefs, consumers and professional tasters, we have distinguished a range of varieties that provide a unique, distinctive taste experience - because we firmly believe that varieties with extraordinary flavours deserve special attention!

From savoury tomato, crunchy cucumber and tender lettuce to sweet melon and extraordinary aubergine.

RZ Contact

Bauke van Lenteren

Specialist M&BD Convenience & Leafies

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Crop	Variety	Crop	Variety
Aubergine	Angela RZ F1	Tomato	Amoroso RZ F1
Aubergine	Sabelle RZ F1	Tomato	Brioso RZ F1
Carrot	Crofton RZ F1	Tomato	Confetto RZ F1
Cauliflower	Vitaverde F1	Tomato	Elanto RZ F1
Cos lettuce	Crunchita RZ	Tomato	Montenegro RZ F1
Melon	Ricura RZ F1	Tomato	Florantino RZ F1
Melon	Tikal RZ F1	Tomato	Roterno RZ F1
Mini cucumber	Quarto RZ F1	Tomato	Rugantino RZ F1
Salanova®	Barlach RZ	Tomato	Tiarino RZ F1
Salanova®	Ensor RZ	Tomato	Vacetto RZ F1
Salanova®	Gaugin RZ	Tomato	Solarino RZ F1
Salanova®	Klee RZ	Tomato	Tatami RZ F1
Salanova®	Renoir RZ		
Salanova®	Seurat RZ		
Sweet pepper	Palermo Radius RZ F1		
Sweet pepper	Palermo RZ F1		
Sweet pepper	Palermo Yosemite RZ F1		



Sensational Ingredients

Rijk Zwaan is laying the foundations for healthy and appealing vegetables. We are a 100% vegetable breeding company with a very broad range of products which we are convinced will contribute to a healthy future.

While we believe that it is predominantly the sheer diversity of flavour and colours that make vegetables so unique, some of our varieties have extra-special distinguishing characteristics. We identify these through extensive biochemical research on ingredients like vitamins, carotenoids and dry-matter content.

We are keen to share our findings with you through our Sensational Ingredients product line, and discuss how we can use the data to maximum market effect.

Crop	Variety
Beetroot	Belushi RZ F1
Beetroot	Monty RZ F1
Carrot	Warmia RZ F1
Incised leaf lettuce	Expertise RZ
Savoy cabbage	Morama RZ F1
Tomato	Lyterno RZ F1

RZ Contact

Jan Doldersum

Manager Marketing & Business Development
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Sensational Snacks

With Sensational Snacks, Rijk Zwaan aims to draw attention to vegetables that are a healthy ‘between-meal’ treat. More and more consumers are discovering the health benefits of vegetables as snacks. Rijk Zwaan is capitalising on this with a widening range of specific varieties, like ready-to-eat plum tomatoes, small, handy-sized cocktail cucumbers as well as carrots, celery, baby beetroot and radishes.

With Sensational Snacks, Rijk Zwaan intends to stimulate the consumption of vegetables even further. So... Let’s snack!

RZ Contact

Johan Vis

Specialist Marketing Tomato & Cucumber
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Crop	Variety
Carrot	Crofton RZ F1
Carrot	Jerada RZ F1
Cauliflower	Casper RZ F1
Gherkin	Lenara RZ F1
Kohlrabi	Terek RZ F1
Melon	Caribbean Gold RZ F1
Melon	Caribbean King RZ F1
Melon	Gladiol RZ F1
Mini cucumber	Quarto RZ F1
Mini cucumber	Quinton RZ F1
Mini cucumber	Qwerty RZ F1
Radish	Mondial RZ F1
Sweet Pepper	Trirosso RZ F1
Sweet Pepper	Triora RZ F1
Sweet Pepper	Tryello RZ F1
Tomato	Confetto RZ F1
Tomato	Sassari RZ F1
Tomato	Solarino RZ F1



Sensational Traditions

Rediscovering the value of authenticity

Specially selected varieties which capture the essence of traditional and authentic products. Globalisation has affected all aspects of life, including food and nutrition. Such is the extent of standardisation that some products have become classed as ‘premium’, putting them beyond the reach of local consumers in the areas where they are produced. Fresh products characterised by their uniqueness, aroma, texture and taste are vanishing from points of sale and hence from our lives because they no longer meet the requirements with regard to size, shelf life, seasonality, etc.

Rijk Zwaan is keen to see such unique products valued and appreciated once more. Therefore, we have prepared this catalogue of varieties which succeed in combining the essence of traditional and authentic products with the guarantees required by today’s production and distribution systems. The time has come to celebrate uniqueness once again!

Crop	Crop	Crop
Eggplant	Tomato	Red Cabbage
Lydia RZ	Meneghino RZ	Redma RZ
Angela RZ	Rugantino RZ	Resima RZ
Leire RZ	Ty 12 RZ	Pole Slicing Bean
Sabelle RZ	Green Cauliflower	Faiza RZ
Radish	Gilverde RZ	Cabbage
Mondial RZ	Vitaverde RZ	Tourima RZ
Hot Pepper	Blanched Celery	Teama RZ
Efsun RZ	Felicia RZ	Kohlrabi
Lumbard RZ		Ukza RZ

RZ Contact

Jan Doldersum

Manager Marketing & Business Development
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Eggplant



Rijk Zwaan has a broad range of varieties with excellent fruit quality, characteristics, and shelf life. We offer varieties suitable for all types of cultivation, ranging from active greenhouses to passive greenhouses and tunnels, as well as open field cultivation.

New market opportunities

Rijk Zwaan is continuously looking for new market opportunities and developing new and reliable, labour-friendly varieties, with the bar for productivity being raised with every new introduction.

Various shapes and colours

Our eggplant range consists of cylindrical, oval and round types. Apart from the variation in shape, the range in fruit colours is broad. Apart from shiny black, we offer varieties in green, white, violet and striped purple and white.

Perfect quality

Rijk Zwaan eggplant varieties are selected for the best external colour, spineless fruits and a calyx that keeps its nice green colour after harvesting. We aim for perfect internal and external quality, combined with excellent shelf life, a strong point of Rijk Zwaan eggplant varieties.

An eye for the consumer

Rijkzwaan is paying more and more attention to the final consumer, with an eye on taste, convenience, sustainability and health. Our research is actively contributing to meet these trends today and in the future.





**Long
cylindrical
Eggplant**



Variety	Heated	Protected	Open field	Fruit colour	Product line / Label
Long cylindrical black					
10-721 RZ F1		•		Black	
Anamur RZ F1			•	Black	
Anatolia RZ F1		•		Black	
Brigitte RZ F1		•		Black	
Estelle RZ F1		•		Black	
Hayal RZ F1		•		Black	
Kirsty RZ F1		•		Black	
Nilo RZ F1		•	•	Black	❄️
Oriental RZ F1		•		Black	





Oval black
Eggplant

Fruit crops

Variety	Heated	Protected	Open field	Fruit colour	Product line / Label
Oval black					
10-207 RZ F1		•		Black	
Adele RZ F1	•			Black	
Beyonce RZ F1	•			Black	
Jaylo RZ F1	•			Black	NCT
Kylie RZ F1 (t)	•			Black	
Leticia RZ F1		•		Black	
Monarca RZ F1		•		Black	NCT
Rosheen RZ F1	•			Black	
Sharapova RZ F1		•	•	Black	
Thelma RZ F1		•		Black	NCT

(t) For trial purposes only, not for commercial exploitation



Oval Eggplant



Variety	Heated	Protected	Open field	Fruit colour	Product line / Label
Oval green					
Samantha RZ F1		•		Green	
Oval striped					
Angela RZ F1	•	•		Striped	NCT
Leire RZ F1			•	Striped	
Lydia RZ F1		•		Striped	
Oval white					
Aretussa RZ F1		•		White	
Lato RZ F1	•	•		White	





Round
Eggplant

Fruit crops

Variety	Heated	Protected	Open field	Fruit colour	Product line / Label
Oval round black					
Cheryl RZ F1		•		Black	
Fantastic RZ F1		•	•	Black	☀️
Round purpura					
Sabelle RZ F1		•	•	Purple	🍷



Cucumber



Rijk Zwaan has a leading position in the international cucumber market. Our dedicated team of breeders continuously develops new, innovative varieties for all growing conditions. Two fine examples of these innovations are the introduction of the BlueLeaf concept and the BonDefense varieties.

New concepts

The BlueLeaf varieties offer the grower a more healthy and green crop in unheated cultivation. Under the BonDefense label Rijk Zwaan introduces, as the first breeding company, varieties with CGMMV resistance.

Diversification

There is a wide diversity in cucumbers. We develop them in a variety of colours, skin forms and lengths, from mini to long and from smooth to spined. One very good example of the diversification of Rijk Zwaan are the snack cucumbers, which are just the right size to eat in one bite. This type is also ideal as a snack between meals, especially for children. The snack range is now further expanded with a light green variety with a firmer bite, an attractive creamy-white and a bicolor.

Modern growing techniques

New growing techniques demand new variety traits. Rijk Zwaan follows with variety development for these new techniques, such as the emerging high-wire cropping and supplementary lighting in modern greenhouse production. Varieties with specific suitability can contribute to an increased yield and a higher quality product.





Resistance codes

CMV = *Cucumber mosaic virus*

Cucumber mosaic

CVV = *Cucumber vein yellowing virus*

Cucumber vein yellowing

CGMMV = *Cucumber green mottle mosaic virus*

Cucumber green mottle

CYSDV = *Cucurbit yellow stunting disorder virus*

Cucurbit yellow stunting disorder

Pcu = *Pseudoperonospora cubensis*

Downy mildew

PRSV = *Papaya ringspot virus*

Papaya ringspot

WMV = *Watermelon mosaic virus*

Watermelon mosaic

ZYMV = *Zucchini yellow mosaic virus*

Zucchini yellows

Ccu = *Cladosporium cucumerinum*

Scab and gummosis

Cca = *Corynespora cassiicola*

Corynespora blight and target spot

Px (ex Sf) = *Podosphaera xanthii* (ex *Sphaerotheca fuliginea*)

Powdery mildew

Co = *Colletotrichum orbiculare*

Anthraxnose

Asian Cucumber



Variety	Hr	lr	Heated	Protected	Spring	Summer	Autumn	Winter	Product line / Label
Chinese									
Huangshan RZ F1	Px (ex Sf)	CMV/CVV/ZYMV		•	•	•	•	•	
Russian									
Gerakl RZ F1	Ccu	CMV/CVV/Px (ex Sf)	•		•	•	•	•	
Svyatogor RZ F1	Ccu	CVV/Px (ex Sf)	•		•			•	





Long Cucumber

Fruit crops

Variety	Hr	Ir	Heated	Protected	Spring	Summer	Autumn	Winter	Product line / Label
Long									
Addison RZ F1	Ccu/Px (ex Sf)	CGMMV/CMV/CVVV	•					•	
Aisopos RZ F1	Cca/Ccu/Px (ex Sf)	CVVV		•	•		•	•	
Bonbon RZ F1	CGMMV/Ccu	CVVV/Px (ex Sf)	•		•	•	•		
Bonifacio RZ F1	CGMMV/Cca/Ccu	CVVV	•		•	•	•		
Bonnet RZ F1	CGMMV/Ccu/Px (ex Sf)	CVVV	•		•	•	•		
Boreal RZ F1	Ccu	CVVV/Px (ex Sf)		•			•	•	
Burgos RZ F1	Cca/Ccu	CVVV/Px (ex Sf)		•				•	
Cadence RZ F1	Cca/Ccu/Px (ex Sf)		•		•	•	•		
Calixto RZ F1	Cca/Ccu	CVVV/Px (ex Sf)		•			•	•	
Cumlaude RZ F1	Ccu/Px (ex Sf)		•	•	•	•	•		
Demarrage RZ F1	Cca/Ccu	Px (ex Sf)	•		•	•	•		
Diapason RZ F1	Cca/Ccu/Px (ex Sf)	CMV/CVVV	•	•	•	•	•		
Eminentia RZ F1	Ccu/Px (ex Sf)		•		•	•	•		
Galibier RZ F1	Cca/Ccu	Px (ex Sf)	•		•			•	
Grafito RZ F1	Cca/Ccu	CVVV/Px (ex Sf)		•				•	
Inyathi RZ F1	Cca/Ccu/Px (ex Sf)	CMV/CVVV		•	•	•	•	•	
Jungla RZ F1	Cca/Ccu	CVVV/CYSDV		•			•	•	
Laureen RZ F1	Cca/Ccu	CVVV	•		•	•	•		
Litoral RZ F1	Cca/Ccu/Px (ex Sf)	CVVV		•			•	•	
Marbon RZ F1	CGMMV/Cca/Ccu/Px (ex Sf)	CMV/CVVV	•		•	•	•		
Myrthos RZ F1	Ccu/Px (ex Sf)	CMV/CVVV		•	•	•			
Pradera RZ F1	Cca/Ccu/Px (ex Sf)	CVVV		•	•	•	•		
Proloog RZ F1	Ccu	Px (ex Sf)	•		•	•	•		
Roxanna RZ F1	Cca/Ccu		•		•	•	•		
Scotinos RZ F1	Ccu	Px (ex Sf)		•			•	•	
Stelvio RZ F1	Cca/Ccu/Px (ex Sf)		•		•	•	•		
Stockeu RZ F1	Ccu/Px (ex Sf)		•		•	•	•		
Valle RZ F1	Cca/Ccu	CVVV/Px (ex Sf)		•				•	
Verdon RZ F1	CGMMV/Cca/Ccu/Px (ex Sf)	CMV/CVVV	•		•	•	•		



Midi Cucumber



Variety	Hr	Ir	Heated	Protected	Spring	Summer	Autumn	Winter	Product line / Label
Midi									
Jirra RZ F1	Ccu	CMV/CVVV		•			•	•	
Media RZ F1	Cca/Ccu	CMV/CVVV/Px (ex Sf)	•	•	•	•	•	•	
Mewa RZ F1	Cca/Ccu	CVVV/Px (ex Sf)	•		•	•	•	•	
Yani RZ F1	Ccu	CMV/CVVV	•		•			•	

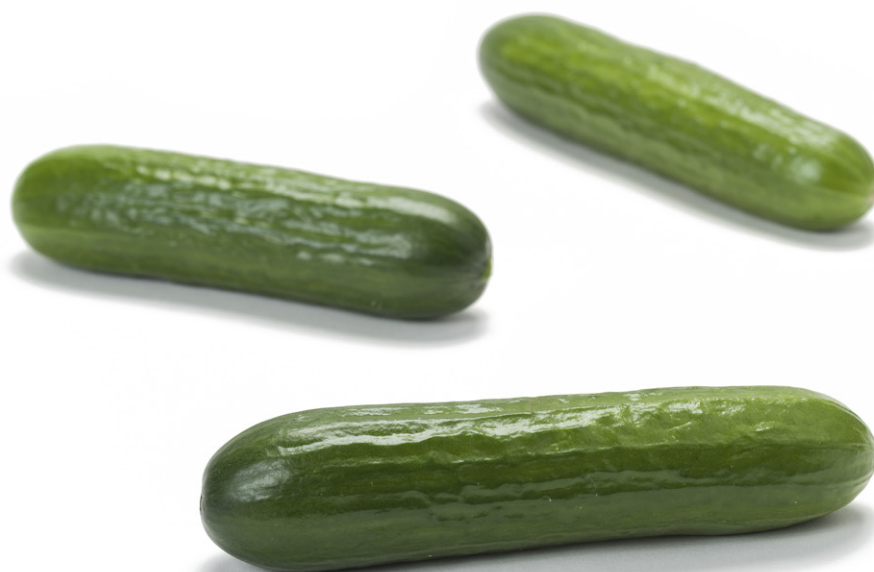




Mini Cucumber

Fruit crops

Variety	Hr	Ir	Heated	Protected	Spring/ Summer	Autumn	Winter	Type of Fruiting	Product line / Label
Mini									
Alfrid RZ F1	Ccu/Px (ex Sf)	CMV/CVY/CYSDV/PRSV/WMV/ZYMV		●	●			Semi Multi	
Brenji RZ F1	Ccu/Px (ex Sf)			●			●	Single	
Deena RZ F1	Ccu/Px (ex Sf)	CMV/CVY	●	●				Single	
Deltastar RZ F1	Cca/Ccu/Px (ex Sf)	CMV/CVY		●	●			Semi Multi	
Gianco RZ F1	Ccu/Px (ex Sf)	CMV/CVY/PRSV/WMV/ZYMV		●	●			Multi	
Khassib RZ F1	Ccu/Px (ex Sf)	CMV/CVY/PRSV/WMV/ZYMV		●	●	●		Semi Multi	
Kingstar RZ F1	Ccu/Px (ex Sf)	CMV/CVY		●		●		Semi Multi	
Multistar RZ F1	Ccu/Px (ex Sf)	CMV/CVY/PRSV/WMV/ZYMV		●	●	●		Semi Multi	
Nouran RZ F1	Ccu/Px (ex Sf)	PRSV/WMV/ZYMV		●	●			Semi Multi	
Picowell RZ F1	Ccu	Px (ex Sf)	●		●	●	●	Semi Multi	
Powerstar RZ F1	Ccu/Px (ex Sf)			●			●	Semi Multi	
Silyon RZ F1	Ccu/Px (ex Sf)	CMV/CVY/PRSV/WMV/ZYMV		●	●			Multi	
Valleystar RZ F1	Ccu/Px (ex Sf)	CMV		●		●		Semi Multi	



Slicer Cucumber




Variety	Hr	Ir	Heated	Protected	Spring	Summer	Autumn	Winter	Product line / Label
Slicer									
22-960 RZ F1	Ccu/Px (ex Sf)	CMV/CVVV		•	•		•	•	
Alanis RZ F1	Cca/Ccu	CMV		•	•		•	•	
Baganda RZ F1	Ccu/Px (ex Sf)	CMV/CVVV		•	•	•			
Caman RZ F1	Ccu/Px (ex Sf)	CMV/CVVV		•	•		•		
Esparon RZ F1	Ccu/Px (ex Sf)	CMV/CVVV		•	•		•		
Modan RZ F1	Ccu/Px (ex Sf)	CMV/CVVV		•	•	•	•	•	
Mydas RZ F1	Ccu/Px (ex Sf)	CMV/CVVV		•	•	•	•	•	
Touareg RZ F1	Ccu/Px (ex Sf)	CMV/CVVV		•	•	•	•		
Verdena RZ F1	Ccu/Px (ex Sf)	CMV/CVVV		•			•	•	
Zaguan RZ F1	Ccu/Px (ex Sf)	CMV/CVVV		•			•	•	





Snack
Cucumber

Fruit crops

Variety	Hr	Ir	Heated	Protected	Spring/ Summer	Autumn	Winter	Type of Fruiting	Product line / Label
Canfit RZ F1	Ccu	CMV		•	•			Multi	
Quarto RZ F1	Ccu/Px (ex Sf)		•		•	•	•	Multi	
Quinton RZ F1	Px (ex Sf)		•		•	•	•	Multi	



Gherkin



The gherkin market is globally connected. Small changes in the gherkin market can have a big impact on production areas and variety requirements. Our team of international crop advisors follow up on all trend and developments in the international gherkin market. With their and your input we continue to develop new and innovative varieties with new characteristics and resistances.

Resistance codes

CMV = *Cucumber mosaic virus*

Cucumber mosaic

Pcu = *Pseudoperonospora cubensis*

Downy mildew

Ccu = *Cladosporium cucumerinum*

Scab and gummosis

Px (ex Sf) = *Podosphaera xanthii* (ex *Sphaerotheca fuliginea*)

Powdery mildew

Co = *Colletotrichum orbiculare*

Anthraxnose





Gherkin

Fruit crops

Variety	Hr	Ir	L / D ratio	Horizontal Cultivation	Vertical cultivation	Indoor	Mechanical harvest	Product line / Label
Smooth - Parthenocarpic								
Chopin RZ F1	CMV/Ccu/Px (ex Sf)		3,1:1	•	•	•		
Dirigent RZ F1	Ccu/Px (ex Sf)	CMV	3,1:1		•			❄️
Majestosa RZ F1	Ccu/Px (ex Sf)	CMV/Pcu	3,2:1	•				❄️ NCT
Nota RZ F1	CMV/Ccu/Px (ex Sf)							
Spined - Parthenocarpic								
Chaikovskiy RZ F1	CMV/Ccu/Px (ex Sf)		3,2:1		•			
Chandini RZ F1	CMV/Ccu/Px (ex Sf)		3,2:1	•				
Componist RZ F1	Ccu/Px (ex Sf)	CMV	3,0:1		•	•		❄️
Karaoke RZ F1	Ccu/Px (ex Sf)	CMV/Pcu	3,0:1	•	•			❄️ NCT
Lenara RZ F1	CMV/Ccu/Px (ex Sf)		3,0:1			•		
Liszt RZ F1	CMV/Ccu/Px (ex Sf)		3,2:1		•	•		NCT
Sound RZ F1	CMV/Ccu/Px (ex Sf)		3,1:1	•	•			
Wagner RZ F1	Ccu/Px (ex Sf)	CMV	3,0:1	•	•			❄️
Predominantly female								
Sonate RZ F1	Ccu/Px (ex Sf)	Pcu	3,0:1	•				❄️ NCT
American Spined								
Gershwin RZ F1	Ccu	Px (ex Sf)	3,2:1	•			•	
Puccini RZ F1	Ccu	Co:1/Px (ex Sf)	3,0:1	•			•	❄️



Sweet Pepper



Sweet peppers are grown year-round and come in many different colours, forms and sizes. Our dedicated team of breeders is creating an ever-expanding range of high quality pepper varieties.

Widening range

In blocky peppers, Rijk Zwaan offers a complete range, from large to small fruited varieties, early to late maturity and suitability for open field, protected or 'high tech' conditions. We are able to offer a reliable variety for most growing conditions and match your specific needs.

Besides an excellent range of blocky peppers, we also offer a number of varieties in types from all over the world, such as Hungarian wax, Dulce Italiano type and Kapia type, to name a few. Each of them has a specific shape, colour, taste and texture. A standard product in some markets, a specialty in other markets.

Lt Defense is the product line of varieties having a high tolerance to *Leveillula taurica* (Powdery Mildew) pathogen. Allows less chemical use, less stress for the grower and the plant and thus higher yield, as well as longer plastic longevity and cost savings. If you would like to have more information about this concept, please contact your local subsidiary in your country.

 **Lt DEFENSE**



Resistance codes

PVY = *Potato Y virus*
Potato Y

TSWV = *Tomato spotted wilt virus*
Tomato spotted wilt

Ma = *Meloidogyne arenaria*
Root-knot

Mi = *Meloidogyne incognita*
Root-knot

Mj = *Meloidogyne javanica*
Root-knot

Pc = *Phytophthora capsici*
Buckeye fruit and root rot

Xcv = *Xanthomonas campestris* pv.
vesicatoria
Bacterial spot

Lt = *Leveillula taurica* (anamorph:*Oidiopsis sicula*)
Powdery mildew

Blocky Sweet Pepper



Variety	Hr	Ir	Heated	Greenhouse	Plastic Tunnel	Open field	Fruit size*	Product line / Label
Red								
35-141 RZ F1	PVY:0,1,1.2/Tm 0-3/Xcv:1-3	TSWV		•			L	
35-178 RZ F1	Tm:0-2			•			L/XL	
35-189 RZ F1	Tm:0-3		•	•			M	
35-190 RZ F1	Tm:0-2	TSWV	•	•			M	
Acorde RZ F1	PVY:0,1,1.2/Tm 0-2/Xcv:1-3	TSWV		•			L	
Alegria RZ F1	Tm:0-3	TSWV		•			L	
Avante RZ F1	Tm:0-2	TSWV/Lt/Pc/Ma/Mi/Mj		•			L	LF
Canzion RZ F1	Tm:0-3	TSWV/Lt		•			L	
Clavesol RZ F1	Tm:0-3	TSWV		•			L	
Corsario RZ F1	Tm:0-3	TSWV		•			L	
Davos RZ F1	Tm:0-2		•	•			M	W
Fabris RZ F1	Tm:0-3	TSWV	•	•			M	
Falko RZ F1	Tm:0-3	TSWV	•	•			M	
Gavotte RZ F1	Tm:0-3	TSWV/Ma/Mi/Mj		•			XL	
Gospel RZ F1	PVY:0,1,1.2/Tm 0-3/Xcv:1-3	TSWV		•		•	L/XL	NCT
Inspiration RZ F1	Tm:0-2	Lt	•	•	•		M/L	LF
Ludwika RZ F1	Tm:0-2	Lt		•			L	LF
Mandy RZ F1	Tm:0-3			•			L	
Massilia RZ F1	Tm:0-2	TSWV/Lt/Ma/Mi/Mj	•	•	•		L	
Mazurka RZ F1	Tm:0			•	•	•	L	
Nagano RZ F1	Tm:0-2	Lt	•	•			M	LF W
Nirvin RZ F1	Tm:0-2	TSWV/Lt/Ma/Mi/Mj	•	•	•		L	LF
Pampero RZ F1	Tm:0-3	TSWV		•			L	
Pasarella RZ F1	PVY:0,1/Tm:0-2	TSWV		•			L	
Red Jet RZ F1	PVY:0,1,1.2/Tm 0-2/Xcv:1-3	Lt				•	L	LF
Red Mazurka RZ F1	Tm:0			•	•	•	L	
Redline RZ F1	Tm:0-3		•	•			L	LF NCT
Redwing RZ F1	Tm:0-2	TSWV	•	•			L	
Rinska RZ F1	Tm:0-2	Lt/Ma/Mi/Mj		•			L	LF
Romance RZ F1	Tm:0-3	TSWV		•			L	
Sapporo RZ F1	Tm:0-2		•	•			M	W
Solfeo RZ F1 (t)	Tm:0-3	TSWV/Ma/Mi/Mj		•			L	
Sondela RZ F1	PVY:0,1/Tm:0/Xcv:1-3	TSWV		•	•		L	W
Sorpasso RZ F1 (t)	Tm:0-3/Xcv:1-3	TSWV/Ma/Mi/Mj		•			L	



(t) For trial purposes only; not for commercial exploitation

* S = 150-175g (G), M = 175-200g (G), L = 200-250g (GG), XL = >250g (GGG)



Blocky
Sweet Pepper

Fruit crops

Variety	Hr	lr	Heated	Greenhouse	Plastic Tunnel	Open field	Fruit size*	Product line / Label
Souleria RZ F1	PVY:0,1,1.2/Tm 0-2/Xcv:1-3	TSWV		●			L	
Starlet RZ F1	PVY:0,1/Tm:0/Xcv:1-3	TSWV		●	●		L	❄️
Tordion RZ F1	Tm:0-3/Xcv:1-3	TSWV/Ma/Mi/Mj		●			L/XL	
Traviatta RZ F1	Tm:0-3	TSWV		●	●		L	NCT
Trovo RZ F1	PVY:0,1/Tm:0-2	TSWV		●			L	
Trumpet RZ F1	Tm:0-3	TSWV		●			L	
Valkiria RZ F1	Tm:0-2	Lt		●			L	Ⓜ️
Zamboni RZ F1	Tm:0-2	TSWV		●			L	
Zidenka RZ F1	Tm:0-2			●			L	
Green								
Pursuit RZ F1	Tm:0-3		●	●			S	
Mint								
Menta RZ F1	PVY:0/Tm 0-2			●	●		M	
Orange								
Arancia RZ F1	Tm:0-3	TSWV	●	●	●		L	NCT
Boogie RZ F1	Tm:0-2		●	●			M	NCT
Gilmour RZ F1	Tm:0-3		●	●			L	
Laud RZ F1	Tm:0-3	TSWV		●			L	
Orangery RZ F1	Tm:0-3		●	●			L	NCT
Prosperity RZ F1	Tm:0-3	TSWV/Ma/Mi/Mj	●	●			L	
Sympathy RZ F1	Tm:0-2		●	●	●	●	L/XL	NCT

* S = 150-175g (G), M = 175-200g (G), L = 200-250g (GG), XL = >250g (GGG)



Blocky Sweet Pepper



Variety	Hr	Ir	Heated	Greenhouse	Plastic Tunnel	Open field	Fruit size*	Product line / Label
Yellow								
35-240 RZ F1	Tm:0-3			•			L	
35-248 RZ F1	Tm:0-3		•	•			L	
Allrounder RZ F1	Tm:0-3		•	•			M	
Bachata RZ F1	Tm:0-3	TSWV	•	•	•	•	L/XL	
Baselga RZ F1	Tm:0-3		•	•			L	
Crosby RZ F1	Tm:0-3		•	•			L	
Hatrick RZ F1	Tm:0-3		•	•			L	
Helsinki RZ F1	Tm:0-2		•	•			M	NCT
Ilanga RZ F1	PVY:0/Tm 0-3	TSWV		•	•		L/XL	
Inzell RZ F1	Tm:0-2		•	•			M	
Jorrit RZ F1	Tm:0-3		•	•			M	
Kaliroy RZ F1	Tm:0-3		•	•			L/XL	
Lirica RZ F1	PVY:0/Tm 0-3	TSWV		•	•		XL	NCT
Rookie RZ F1	Tm:0-3		•	•			L	
Saramba RZ F1	Tm:0-2	TSWV		•	•		L	
Sinfony RZ F1	Tm:0-2	TSWV		•			L	
Stayer RZ F1	Tm:0-2		•	•			M/L	
Sven RZ F1	Tm:0-2	TSWV	•	•	•		M	NCT
Taranto RZ F1	Tm:0-2			•		•	L	
Vancouver RZ F1	Tm:0-3		•	•			M/L	

* S = 150-175g (G), M = 175-200g (G), L = 200-250g (GG), XL =>250g (GGG)





Fruit crops

Charleston

Variety	Hr	Ir	Heated	Greenhouse	Plastic Tunnel	Open field	Product line / Label
Egemen RZ F1	Tm:0-2			•		•	
Sammy RZ F1	Tm:0-2			•	•		



Dolma

Variety	Hr	Ir	Heated	Greenhouse	Plastic Tunnel	Open field	Product line / Label
Benino RZ F1	Tm:0-2	TSWV		•			
Drogba RZ F1	PVY:0,1,1.2/Tm 0-2	TSWV		•			
Punto RZ F1	Tm:0					•	





Dulce Italiano
Sweet Pepper

Variety	Hr	Ir	Heated	Greenhouse	Plastic Tunnel	Open field	Product line / Label
Red							
Louay RZ F1	Tm:0-2	TSWV		•	•	•	
Majic RZ F1	Tm:0-2	TSWV				•	
Massouda RZ F1	Tm:0-2	TSWV		•			
Padua RZ F1	Tm:0-2	TSWV		•	•	•	
Palermo Radius RZ F1	PVY:0,1,1.2/Tm 0-2	TSWV	•				Sweet Palermo
Palermo RZ F1	Tm:0-2		•	•			Sweet Palermo NCT
Yellow							
Palermo Yosemite RZ F1	PVY:0,1,1.2/Tm 0-2	TSWV	•				Sweet Palermo





Dulce Italiano Sweet Pepper

Fruit crops

Surprisingly unique

This unique fruit was initially produced in just a handful of locations, but this tasty treat is now within everyone's reach thanks to the formation of the Palermo Originals Group, an exclusive network of growers who are all specially qualified to produce the Sweet Palermo. Each grower guarantees a consistent quality and availability, meaning that you too can now enjoy the tastiest pepper ever produced in terms of sweetness.

Surprisingly sweet

After one bite of the Sweet Palermo, you'll be hooked and there's nothing you can do about it. There is an explanation for it though, based on hard science. The reason lies in what are called the 'brix values': the numbers expressing the natural sugar content of a foodstuff. Whereas the sweetest regular blocky pepper has a maximum brix value of 7, the Sweet Palermo achieves a brix of 9. As a result of this, combined with its rich aroma of fruits and fresh herbs, the Sweet Palermo is scored highly in taste tests – even by children! The importance of eating fruit and vegetables is becoming increasingly widely accepted, and the Sweet Palermo can help even the fussiest eaters to enjoy a more varied diet fit for a true gastronome.



Sweet Palermo®
www.sweetpalermo.com

Surprisingly versatile

In food magazines, cookery books and cooking programmes, vegetables are increasingly being presented as the preferred main ingredient or focal point of a meal, without any need to compromise on taste. The Sweet Palermo is an excellent fit with this new approach. It adds flavour to a wide variety of hot and cold dishes. It can be cooked, stir-fried, grilled, steamed, roasted and barbecued. You can chop or slice it into cubes, strips or rings to add a surprisingly sweet accent to salads as a raw ingredient, or it can be served as an appetiser. How about stuffed pepper to accompany drinks, for instance? Or why not use it in a sandwich? Such a long pointed pepper is great for filling evenly, using minced meat and feta for example. An authentic bolognese sauce doesn't include pepper, but the Sweet Palermo adds body and sweetness and is healthier too. And, perhaps equally importantly, kids love it.

Hungarian Wax
Sweet Pepper



Variety	Hr	Ir	Heated	Greenhouse	Plastic Tunnel	Open field	Product line / Label
Bravia RZ F1	Tm:0-2	TSW		•	•		
Century RZ F1	Tm:0-3			•	•	•	NCT
Galga RZ F1	Tm:0-2			•	•	•	NCT
Snowwhite RZ F1	Tm:0-2			•			





Variety	Hr	Ir	Heated	Greenhouse	Plastic Tunnel	Open field	Product line / Label
35-525 RZ F1 (t)	Tm:0			•			
Bellisa RZ F1	Tm:0	TSWV		•			
Corinna RZ F1	Tm:0-2	Pc		•		•	
Dinamica RZ F1	PVY:0,1,1.2/Tm 0-2/Xcv:1-3			•		•	
Kappa RZ F1	Tm:0-2			•			
Porteca RZ F1	Tm:0-2			•		•	

(t) For trial purposes only; not for commercial exploitation



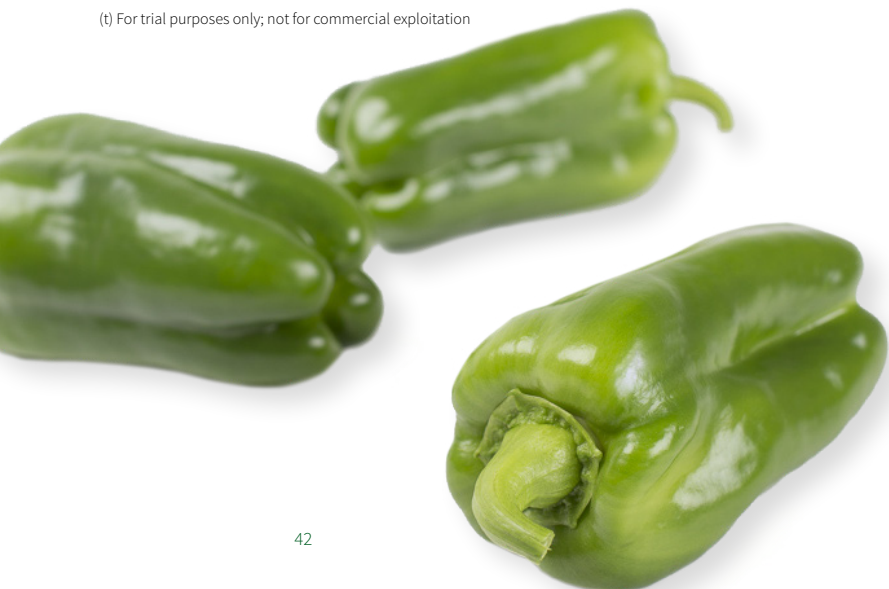
Lamuyo

Sweet Pepper



Variety	Hr	Ir	Heated	Greenhouse	Plastic Tunnel	Open field	Product line / Label
Green							
Guillette RZ F1	Tm:0-3	TSWV				•	
Red							
Bismuto RZ F1	Tm:0-2	TSWV		•		•	
Crucero RZ F1	Tm:0-3	TSWV		•			
Eslora RZ F1	Tm:0-3	TSWV		•			
Esmeralda RZ F1	Tm:0-2			•			
Fenomeno RZ F1	PVY:0,1/Tm 0-3	TSWV/Ma/Mi/Mj		•		•	
Fragata RZ F1	Tm:0-2	TSWV		•			NCT
Granate RZ F1	Tm:0-2			•			
Guemes RZ F1	Tm:0-3	TSWV		•			
Kadeka RZ F1	PVY:0,1/Tm:0-2	TSWV		•		•	❄️
Optimist RZ F1	PVY:0,1/Tm 0-3	TSWV		•			
Perla RZ F1	Tm:0-2	TSWV		•			❄️
Physol RZ F1	PVY:0,1/Tm 0-3	TSWV/Ma/Mi/Mj		•		•	
Pipin RZ F1	PVY:0,1/Tm:0-2/Xcv:1-3	TSWV		•			❄️
Topacio RZ F1	Tm:0-2			•			
Upipu RZ F1	PVY:0,1/Tm:0-2/Xcv:1-3	TSWV		•			❄️
Viana RZ F1 (t)	Tm:0-3	TSWV		•			
Yatasto RZ F1	Tm:0-2	TSWV		•			
Zafiro RZ F1	Tm:0			•			❄️
Zirconio RZ F1	Tm:0-2			•			
Yellow							
Plinio RZ F1	PVY:0,1/Tm:0-2	TSWV		•			❄️

(t) For trial purposes only; not for commercial exploitation





Fruit crops

Variety	Hr	Ir	Heated	Greenhouse	Plastic Tunnel	Open field	Product line / Label
Triora RZ F1	Tm:0-2		•	•		•	
Trirosso RZ F1	Tm:0-2		•	•		•	
Triyello RZ F1	Tm:0-2		•	•		•	



Hot Pepper



Peppers come in many different types and sizes. Local preferences in taste, colour and usage make hot peppers a very diverse product worldwide.

Market diversity

Different cultures and traditions demand different types and flavours. With dedicated breeding in the Turkish Sivri type and the Mediterranean or hot Arabic type, we are able to serve the markets throughout the Mediterranean and the Middle East.

Our increasing presence in and breeding for the Asian market has resulted in a whole new range of hot peppers. Variety development in the so-called “Bull horn” type for protected winter cultivation has revolutionized the market in China. With varieties like Thunder RZ and Liberator RZ, a new standard has been set in this market.

The expanding range in Asian types will also find their way into other areas as a specialty product.

Apart from excellent fruit quality characteristics, the varieties for winter cultivation are also selected for their stability in that quality, cold tolerance and excellent recovery through winter.





Resistance codes

TSWV = *Tomato spotted wilt virus*

Tomato spotted wilt

Ma = *Meloidogyne arenaria*

Root-knot

Mi = *Meloidogyne incognita*

Root-knot

Mj = *Meloidogyne javanica*

Root-knot

Pc = *Phytophthora capsici*

Buckeye fruit and root rot

Hot Pepper



Variety	Hr	lr	Heated	Protected	Open field	Fruit Length (cm)	Product line / Label
Charleston							
Alseef RZ F1	Tm:0-2	TSWV		•		20-22	

Variety	Hr	lr	Heated	Protected	Open field	Fruit Length (cm)	Product line / Label
Mediterranean Hot							
Daredevil RZ F1	Tm:0-3		•			10-12	
Furnas RZ F1	Tm:0-2			•		15-18	
Habib RZ F1	Tm:0-2			•		16-18	
Pietro RZ F1	Tm:0-2			•		16-18	





Hot Pepper

Fruit crops

Variety	Hr	Ir	Heated	Protected	Open field	Fruit Length (cm)	Product line / Label
Hot Lamuyo							
37-92 RZ F1 (t)	Tm:0			•		10-12	

(t) For trial purposes only; not for commercial exploitation



Variety	Hr	Ir	Heated	Protected	Open field	Fruit Length (cm)	Product line / Label
Sivri							
Efsun RZ F1	Tm:0-2	TSWV			•	16-20	
Kurtulus RZ F1	Tm:0	TSWV		•		16-20	
Lumbard RZ F1	Tm:0-2	TSWV		•	•	16-20	
Yanka RZ F1	Tm:0			•	•	16-18	



Asian Hot Pepper



Variety	Hr	Ir	Heated	Protected	Open field	Fruit Length (cm)	Product line / Label
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Sheephorn

37-93 RZ F1 (t)	Tm:0-2	TSWV		•		24-29	
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(t) For trial purposes only; not for commercial exploitation



Variety	Hr	Ir	Heated	Protected	Open field	Fruit Length (cm)	Product line / Label
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Poa jiao

37-91 RZ F1	Tm:0-2			•		23-27	
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Fruit crops

Variety	Hr	Ir	Heated	Protected	Open field	Fruit Length (cm)	Product line / Label
Bull horn							
37-89 RZ F1	Tm:0-2			•		23-27	
Boomer RZ F1	Tm:0-2	Pc		•	•	24-29	
Hawker RZ F1	Tm:0-2	Ma/Mi/Mj		•		22-26	
Liberator RZ F1	Tm:0-2	Pc		•		24-29	
Rush RZ F1	Tm:0-2			•		18-22	
Stinger RZ F1	Tm:0-2	Pc		•		23-27	
Thunder RZ F1	Tm:0-2			•	•	22-26	
Trooper RZ F1	Tm:0-2			•		24-29	



Tomato



Tomatoes are healthy and tasty and come in many different forms and colours. Rijk Zwaan has a strong position in the tomato market and we are expanding our efforts in all fresh market segments worldwide.

Expanding diversity

Rijk Zwaan is broadening the range of specialty tomatoes in different shapes, sizes and colours. Our new pink cocktail variety Tatami RZ from the Silky Pink concept is a good example. The fruity flavour of this Asian pink tomato is unique; juicy and sweet with a pleasantly soft bite. The distinctive Silky Pink consumer packaging gives recognition to the special characteristics of this tasty tomato.

Quality and flavour

Besides excellent plant characteristics, resistances and yield, Rijk Zwaan has a strong focus on overall fruit quality and is actively selecting on flavour. We aim to develop a broad diversity in flavours for specific purposes such as , use in salads or for snacks, and cooking purposes.

Working on resistance

Harmful viruses and fungi constantly pressure tomato cultivation worldwide. Rijk Zwaan strongly invests in breeding for resistance to enable a reliable, clean and healthy crop. An expanding range of rootstocks also contributes to this goal.





Resistance codes

TSWV = *Tomato spotted wilt virus*

Tomato spotted wilt

ToMV = *Tomato mosaic virus*

Tomato mosaic

TYLCV = *Tomato yellow leaf curl virus*

Tomato yellow leaf curl

Ff (ex Cf) = *Fulvia fulva* (ex *Cladosporium fulvum*)

Leaf mold

Fol = *Fusarium oxysporum* f.sp. *lycopersici*

Fusarium wilt

For = *Fusarium oxysporum* f.sp. *radicis-lycopersici*

Fusarium crown and root rot

On (ex Ol) = *Oidium neolycopersici* (ex *Oidium lycopersicum*)

Powdery mildew

Sbl = *Stemphylium botryosum* f.sp. *lycopersici*

Gray leaf spot

Vd = *Verticillium dahliae*

Verticillium wilt

Va = *Verticillium albo-atrum*

Verticillium wilt

Lt = *Leveillula taurica* (anamorph: *Oidiopsis sicula*)

Powdery mildew

Mi = *Meloidogyne incognita*

Root-knot

Mj = *Meloidogyne javanica*

Root-knot

Ma = *Meloidogyne arenaria*

Root-knot

Si = *Silvering*

Beef Tomato



Variety	Hr	Ir	Heated	Protected	Open field	Spring	Autumn	Winter	AFW*	Productline / Label
Green										
Lunaverde RZ F1	ToMV:0-2/TSWV/Fol:0,1/For/Va:0/Vd:0	TYLCV/Sbl/Ma/Mi/Mj		●			●	●	250 - 300	
Pradollano RZ F1	ToMV:0-2/Ff:A-E/Fol:0,1/For/Sbl/Va:0/Vd:0	TYLCV/Ma/Mi/Mj		●			●	●	200 - 250	
Montenegro RZ F1	ToMV:0-2/Ff:A-E/Fol:0,1/Sbl/Va:0/Vd:0	TYLCV/Ma/Mi/Mj	●	●			●	●	200 - 250	NCT
Pink										
Esmira RZ F1	ToMV:0-2/Ff:A-E/Fol:0,1/Sbl/Va:0/Vd:0			●		●			200 - 250	
TY 12 RZ F1	ToMV:0-2/Ff:A-E/Fol:0,1/For/Sbl/Va:0/Vd:0	TYLCV/Ma/Mi/Mj		●			●	●	180 - 200	
Red										
Attiya RZ F1	ToMV:0-2/TSWV/Ff:A-E/Fol:0,1/Va:0/Vd:0	Ma/Mi/Mj		●		●	●		200 - 220	
Balancan RZ F1	ToMV:0-2/Ff:A-E/Fol:0,1/For/Va:0/Vd:0/Si	On (ex Ol)/Sbl		●					160 - 180	
Bermello RZ F1	ToMV:0-2/TSWV/Ff:A-E/Fol:0,1/Sbl/Va:0/Vd:0	TYLCV/Ma/Mi/Mj		●		●			250 - 300	
Ladoga RZ F1	ToMV:0-2/Ff:A-E/Fol:0,1/For/Sbl/Va:0/Vd:0	On (ex Ol)		●					250 - 300	
Mahitos RZ F1	ToMV:0-2/TSWV/Ff:A-E/Fol:0,1/For/Va:0/Vd:0	Ma/Mi/Mj		●		●			200 - 250	
Myrina RZ F1	ToMV:0-2/TSWV/Fol:0,1/Va:0/Vd:0	TYLCV/Ma/Mi/Mj		●		●			200 - 250	
Paulanca RZ F1	ToMV:0-2/Ff:A-E/Fol:0,1/For/Va:0/Vd:0	On (ex Ol)/Sbl		●					180 - 200	
Taymyr RZ F1	ToMV:0-2/Ff:A-E/Fol:0,1/For/Si	On (ex Ol)		●					250 - 300	
Umagna RZ F1 (t)	ToMV:0-2/TSWV/Ff:A-E/Fol:0,1/Va:0/Vd:0	TYLCV/Ma/Mi/Mj		●		●			180 - 200	
Valouro RZ F1	ToMV:0-2/TSWV/Ff:A-E/Fol:0,1/For/Sbl/Va:0/Vd:0	TYLCV/Ma/Mi/Mj		●	●	●			180 - 200	
Wafira RZ F1	ToMV:0-2/TSWV/Ff:A-E/Fol:0,1/Va:0/Vd:0	Ma/Mi/Mj		●			●	●	200 - 220	
Zayda RZ F1	ToMV:0-2/TSWV/Ff:A-E/Fol:0,1/Va:0/Vd:0	TYLCV/Ma/Mi/Mj		●			●	●	180 - 200	

*Average Fruit weight (gram)

(t) For trial purposes only; not for commercial exploitation





Cherry Tomato

Fruit crops

Variety	Hr	Ir	Heated	Protected	Spring	Summer	Autumn	Winter	AFW*	Productline / Label
Loose										
Cheramy RZ F1	ToMV:0-2/Ff:A-E/Fol:0,1/Va:0/Vd:0/Si	Ma/Mi/Mj	●						14	
Daltary RZ F1	ToMV:0-2/Ff:A-E/Fol:0,1/Va:0/Vd:0/Si		●						16	
Nancy RZ F1	ToMV:0-2	TYLCV/Ma/Mi/Mj		●			●	●	16 - 18	
Sassari RZ F1	ToMV:0-2/Ff:A-E/Fol:0,1/For/Va:0/Vd:0/Si	Ma/Mi/Mj	●						14 - 16	
Truss										
Moscatel RZ F1	ToMV:0-2/TSWV/Ff:A-E/Fol:0,1/Va:0/Vd:0/Si	TYLCV/Ma/Mi/Mj		●	●	●	●	●	18 - 20	
Tastery RZ F1	ToMV:0-2/TSWV/Ff:A-E/Fol:0,1/Va:0/Vd:0/Si	TYLCV/Ma/Mi/Mj	●						18 - 20	

*Average Fruit weight (gram)



Cocktail Tomato



Variety	Hr	Ir	Heated	Protected	Spring	Summer	Autumn	Winter	AFW*	Productline / Label
Pink										
Tatami RZ F1	ToMV:0-2/Ff:A-E/Fol:0,1/For/Va:0/Vd:0/Si	On (ex Ol)/Ma/Mi/Mj	●						40 - 45	Silky Pink
Red										
Brioso RZ F1	ToMV:0-2/Ff:A-E/Fol:0,1/For/Va:0/Vd:0/Si	Lt/On (ex Ol)	●						35 - 45	
Calioso RZ F1	ToMV:0-2/Ff:A-E/Fol:0,1/For/Va:0/Vd:0/Si	TYLVC/Lt/On (ex Ol)/Ma/Mi/Mj		●	●	●	●	●	40 - 45	
Delioso RZ F1	ToMV:0-2/Ff:A-E/Fol:0-2/Va:0/Vd:0/Si	On (ex Ol)/Ma/Mi/Mj	●						35 - 45	
Messina RZ F1	ToMV:0-2/Ff:A-E/Fol:0,1/For/Va:0/Vd:0	Ma/Mi/Mj		●	●	●	●	●	30 - 40	

*Average Fruit weight (gram)





Tomato

Fruit crops

Cuor di Bue

Variety	Hr	Ir	Heated	Protected	Open field	Spring	Autumn	Winter	AFW*	Productline / Label
Meneghino RZ F1	ToMV:0-2/Ff:A-E/For/Va:0/Vd:0	Ma/Mi/Mj		•		•	•		200 - 240	
Rugantino RZ F1	ToMV:0-2/Ff:A-E/Fol:0/For/Sbl/Va:0/Vd:0			•		•			200 - 240	NCT
Rugisso RZ F1	ToMV:0-2/Ff:A-E/For/Va:0/Vd:0			•		•	•		200 - 240	

Plum

Variety	Hr	Ir	Heated	Protected	Open field	Spring	Autumn	Winter	AFW*	Productline / Label
Elongated										
Kostibel RZ F1	ToMV:0-2/Ff:A-E/Fol:0,1/Va:0/Vd:0	Ma/Mi/Mj		•		•			130 - 140	
Monteazul RZ F1	ToMV:0-2/TSWV/Ff:A-E/Fol:0-2/Va:0/Vd:0	TYLCV/Ma/Mi/Mj		•	•	•	•		130 - 140	
Oval										
Bomfado RZ F1	ToMV:0-2/TSWV/Fol:0,1/Sbl/Va:0/Vd:0	Ma/Mi/Mj		•		•			130 - 140	
Marola RZ F1	ToMV:0-2/Ff:A-E/Fol:0,1/For/Va:0/Vd:0	On (ex Ol)	•						100 - 110	NCT
Montealto RZ F1	ToMV:0-2/TSWV/Ff:A-E/Fol:0,1/Va:0/Vd:0	TYLCV/Ma/Mi/Mj		•			•	•	130 - 140	

*Average Fruit weight (gram)



Intermediate Tomato



Variety	Hr	Ir	Heated	Protected	Open field	Spring	Autumn	Winter	AFW*	Productline / Label
Loose round										
Arvento RZ F1	ToMV:0-2/TSWV/Ff:A-E/Fol:0,1/For/Sbl/Va:0/Vd:0/Si	On (ex Ol)	●						95 - 105	
Dometica RZ F1	ToMV:0-2/TSWV/Ff:A-E/Fol:0,1/For/Va:0/Vd:0/Si	On (ex Ol)	●						80 - 90	
Elanto RZ F1	ToMV:0-2/Ff:A-E/Fol:0,1/For/Sbl/Va:0/Vd:0/Si	On (ex Ol)	●						95 - 105	
Loose intermediate										
74-336 RZ F1	ToMV:0-2/Fol:0,1/Va:0/Vd:0	TYLCV/Ma/Mi/Mj		●			●	●	180 - 200	
Alamina RZ F1	ToMV:0-2/TSWV/Ff:A-E/Fol:0,1/Va:0/Vd:0	Ma/Mi/Mj		●		●	●		160 - 180	
Ameera RZ F1	ToMV:0-2/Fol:0,1/Va:0/Vd:0	TYLCV/Ma/Mi/Mj		●			●	●	160 - 180	
Barbados RZ F1	ToMV:0-2/Ff:A-E/Fol:0,1/Va:0/Vd:0			●		●			140 - 160	
Cezari RZ F1	ToMV:0-2/TSWV/Ff:A-E/Fol:0-2/Va:0/Vd:0	Ma/Mi/Mj			●				160 - 180	
Cibellia RZ F1	ToMV:0-2/Ff:A-E/Fol:0,1/Va:0/Vd:0	Ma/Mi/Mj		●			●		140 - 160	
Doufu RZ F1	ToMV:0-2/Ff:A-E/Fol:0,1/Sbl/Va:0/Vd:0	Ma/Mi/Mj		●		●			160 - 180	
Ivanhoe RZ F1	ToMV:0-2/Fol:0-2/Va:0/Vd:0	Ma/Mi/Mj			●				140 - 160	
Leon RZ F1	ToMV:0-2/Fol:0,1/Va:0/Vd:0	TYLCV/Ma/Mi/Mj		●			●		140 - 160	
Lilos RZ F1	ToMV:0-2/Ff:A-E/Fol:0,1/For/Va:0/Vd:0	Ma/Mi/Mj		●		●			140 - 160	
Logure RZ F1	ToMV:0-2/TSWV/Ff:A-E/Fol:0,1/Va:0/Vd:0			●		●			140 - 160	
Nesma RZ F1	ToMV:0-2/Fol:0,1/Va:0/Vd:0	TYLCV/Ma/Mi/Mj		●				●	160 - 180	
Petula RZ F1	ToMV:0-2/Fol:0,1/Va:0/Vd:0			●		●			140 - 160	
Stewart RZ F1	ToMV:0-2/TSWV/Ff:A-E/Fol:0-2/Va:0/Vd:0	TYLCV/Ma/Mi/Mj			●				160 - 180	
Truss fine										
Delyca RZ F1	ToMV:0-2/TSWV/Ff:B,D/Fol:0,1/Va:0/Vd:0	TYLCV		●			●	●	100 - 120	
Haiku RZ F1	ToMV:0-2/TSWV/Ff:A-E/Fol:0,1/For/Va:0/Vd:0/Si	On (ex Ol)	●						100 - 120	Silky Pink
Hibachi RZ F1	ToMV:0-2/TSWV/Ff:A-E/Fol:0,1/For/Va:0/Vd:0	Lt/On (ex Ol)	●						100 - 120	Silky Pink
Lidertom RZ F1	ToMV:0-2/Ff:A-E/Fol:0,1/For/Sbl/Va:0/Vd:0/Si	TYLCV/Ma/Mi/Mj		●					110 - 120	
Lyterno RZ F1	ToMV:0-2/Ff:A-E/Fol:0,1/For/Va:0/Vd:0/Si	On (ex Ol)	●						100 - 110	
Ramyle RZ F1	ToMV:0-2/TSWV/Ff:B,D/Fol:0,1/Va:0/Vd:0	TYLCV/Ma/Mi/Mj		●			●	●	110 - 120	
Razymo RZ F1	ToMV:0-2/TSWV/Ff:B,D/Fol:0,1/Va:0/Vd:0	TYLCV/Ma/Mi/Mj		●			●	●	100 - 120	
Roterno RZ F1	ToMV:0-2/TSWV/Ff:A-E/Fol:0,1/For/Va:0/Vd:0/Si	Lt/On (ex Ol)/Ma/Mi/Mj	●						90 - 100	
Truss medium										
72-720 RZ F1 (t)	ToMV:0-2/Ff:A-E/Fol:0,1/For/Va:0/Vd:0	On (ex Ol)	●						100 - 120	Internal Red
Cappriccia RZ F1	ToMV:0-2/TSWV/Ff:A-E/Fol:0,1/For/Sbl/Va:0/Vd:0/Si			●					110 - 120	
Raymos RZ F1	ToMV:0-2/Ff:B,D/Fol:0,1/Lt/Va:0/Vd:0	TYLCV		●			●	●	130 - 140	
Syrine RZ F1	ToMV:0-2/TSWV/Ff:B,D/Fol:0,1/Va:0/Vd:0	TYLCV/Ma/Mi/Mj		●			●	●	130 - 140	
Truss large										
Endeavour RZ F1	ToMV:0-2/Ff:A-E/Fol:0,1/For/Va:0/Vd:0		●						140 - 160	
Levanzo RZ F1	ToMV:0-2/Ff:A-E/Fol:0,1/For/Sbl/Va:0/Vd:0/Si		●						140 - 160	
Ramywin RZ F1	ToMV:0-2/Ff:B,D/Fol:0,1/Lt/Va:0/Vd:0	TYLCV/Ma/Mi/Mj		●			●	●	140 - 150	
Siranzo RZ F1	ToMV:0-2/Ff:A-E/Fol:0,1/For/Va:0/Vd:0	On (ex Ol)	●						140 - 150	






*Average Fruit weight (gram)

(t) For trial purposes only; not for commercial exploitation



Specialties Tomato

Fruit crops

Variety	Hr	lr	Heated	Protected	Open field	AFW*	Productline / Label
Truss							
72-174 RZ F1	ToMV:0-2/Fol:0	Ma/Mi/Mj	●			25	Cubelli
Caldino RZ F1	ToMV:0-2/Ff:A-E/Fol:0,1/Si	Ma/Mi/Mj	●			13 - 16	
Papeletto RZ F1	ToMV:0-2/Fol:0/For/Va:0/Vd:0/Si		●			40 - 50	Cubelli
Vacetto RZ F1	ToMV:0-2/Fol:0	Sbl	●			20 - 22	Cubelli
Wasino RZ F1	ToMV:0-2/Ff:A-E/Fol:0,1/For/Va:0/Vd:0/Si	On (ex Ol)/Ma/Mi/Mj	●			35 - 40	
Loose							
72-190 RZ F1 (t)	ToMV:0-2/Fol:0,1	Ma/Mi/Mj	●	●		10	Cubelli
Confetto RZ F1	ToMV:0-2/Fol:0,1	Sbl	●	●		14 - 16	Cubelli   
Florantino RZ F1	ToMV:0-2/Fol:0-2/Va:0/Vd:0	Sbl/Ma/Mi/Mj	●	●		8	
Idolini RZ F1	ToMV:0-2/Fol:0	Ma/Mi/Mj	●	●		16 - 18	
Pareso RZ F1	ToMV:0-2/Ff:A-E/Fol:0,1/Va:0/Vd:0/Si	Ma/Mi/Mj		●		14 - 16	
Primarino RZ F1	ToMV:0-2/Ff:A-E/Fol:0-2/Va:0/Vd:0/Si	Sbl/Ma/Mi/Mj		●	●	11	
Solarino RZ F1 (t)	ToMV:0-2/Fol:0,1	Sbl/Ma/Mi/Mj	●	●		10	  

*Average Fruit weight (gram)
(t) For trial purposes only; not for commercial exploitation



Watermelon



Watermelons are known for their juicy, sweet flesh and very high lycopene content. Rijk Zwaan has expanded its breeding activities in this crop and we are now pleased to offer our first outstanding varieties.

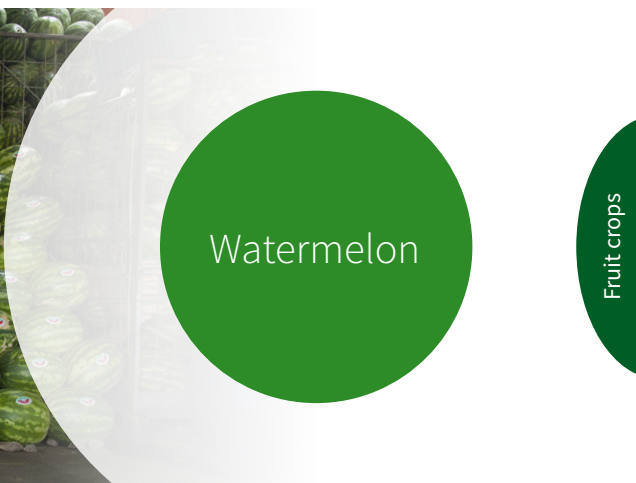
International range

Watermelon is an important vegetable crop with many significant growing areas worldwide, such as China, India, Central Asia, Middle East, the Balkans and all countries around the Mediterranean, as well as the Americas. Each of these areas has specific types and varietal demands. Rijk Zwaan focuses on breeding personal, medium and large sized watermelon varieties, seeded and seedless. With specific varieties suitable for different growing conditions in open field and in protected cultivation, we are working on offering a truly international range.

Sandissima is the name for a new range of small sized watermelon varieties. The varieties are dual purpose: they can be used as a commercial watermelon with good internal quality and flavour. Next to this it can be used as a pollinizer in a field with seedless watermelons.

Sandissima[®]





Variety	Seedless	Fruit size	Product line / Label
Crimson Sweet			
62-214 RZ F1 (t)		Large	
Carroll RZ F1		Large	
Columbia RZ F1		Large	
Oneida RZ F1		Medium	
Tiger Stripe			
62-337 RZ F1 (t)		Small	Sandissima
62-782 RZ F1 (t)	●	Medium	
Tigrinho RZ F1		Small	Sandissima
Sugar Baby			
BARONESA RZ F1		Large	
CONGUITA RZ F1		Small	Sandissima
HIMALIA RZ F1	●	Medium	
HUELVA RZ F1		Large	NCT
TITANIA RZ F1	●	Medium	

(t) For trial purposes only; not for commercial exploitation



Melon



Melon is one of the fastest growing crops within Rijk Zwaan. We have intensified our breeding efforts in melon worldwide. The goal is clear: we want to develop quality melons to be available throughout the whole year.

Flavour and shelf life

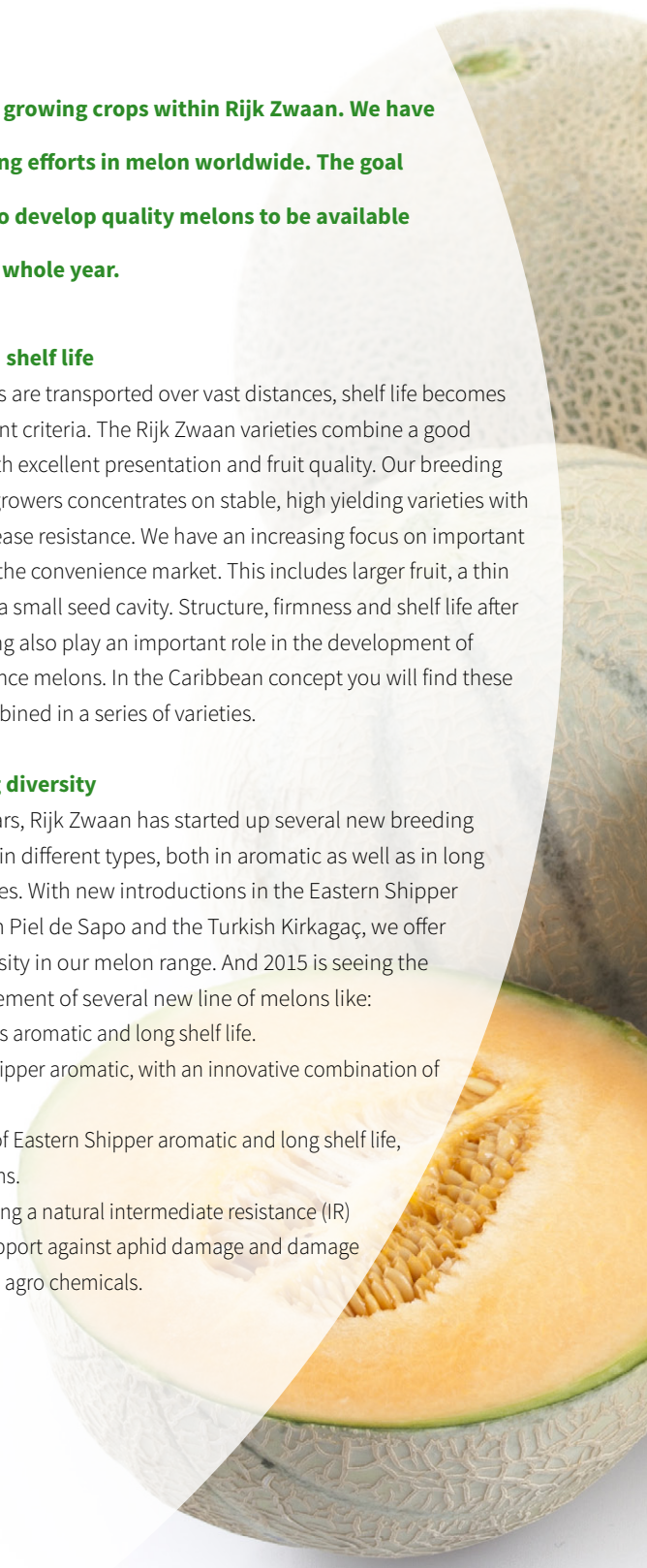
Most melons are transported over vast distances, shelf life becomes an important criteria. The Rijk Zwaan varieties combine a good flavour with excellent presentation and fruit quality. Our breeding work for growers concentrates on stable, high yielding varieties with good disease resistance. We have an increasing focus on important traits for the convenience market. This includes larger fruit, a thin skin and a small seed cavity. Structure, firmness and shelf life after processing also play an important role in the development of convenience melons. In the Caribbean concept you will find these traits combined in a series of varieties.

Increasing diversity

In recent years, Rijk Zwaan has started up several new breeding programmes in different types, both in aromatic as well as in long shelf life varieties. With new introductions in the Eastern Shipper type, the Spanish Piel de Sapo and the Turkish Kirkagaç, we offer an increasing diversity in our melon range. And 2015 is seeing the commercial development of several new line of melons like:

- A full range of Charentais aromatic and long shelf life.
- A new range of Western Shipper aromatic, with an innovative combination of taste and standability.
- The first commercial introduction of Eastern Shipper aromatic and long shelf life, to cover all the different growing conditions.
- AG Defense is the product line of varieties having a natural intermediate resistance (IR) against aphids (*Aphis gossypii*). This is an important support against aphid damage and damage done by viruses spread by aphids. The resistance helps to use less agro chemicals.

**Ag DEFENSE**



Resistance codes

Gc (ex Ec) = *Golovinomyces cichoracearum*
(ex *Erysiphe cichoracearum*)

Powdery mildew

Fom = *Fusarium oxysporum* f.sp. *melonis*

Fusarium wilt

Px (ex Sf) = *Podosphaeria xanthii*

(ex *Sphaerotheca fuliginea*)

Powdery mildew

Ag = *Aphis gossypii*

Cotton aphid

MNSV = *Melon necrotic spot virus*

Melon necrotic spot

Charentais Melon



Variety	Hr	Ir	Protected	Open field	Fruit weight (kg)	Flesh Colour	Product line / Label
Aromatic							
Ainhoa RZ F1	Fom:0,1,2	Gc (ex Ec):1/Px (ex Sf):2,3,5		●	1,0	orange	
Bebop RZ F1	Fom:0,1	Gc (ex Ec):1/Px (ex Sf):2,3,5		●	1,0	orange	
Ellington RZ F1	Fom:0,1,2	Gc (ex Ec):1/Px (ex Sf):2,3,5/Ag		●	1,0	orange	AG
Escorial RZ F1	Fom:0,1,2	Gc (ex Ec):1/Px (ex Sf):2,5		●	1,0	orange	
Galliano RZ F1	Fom:0,1,2	Gc (ex Ec):1/Px (ex Sf):2,3,5	●		1,0	orange	
Grappelli RZ F1	Fom:0,1	Gc (ex Ec):1/Px (ex Sf):2,3,5/Ag	●		1,0	orange	AG
Marsalis RZ F1	Fom:0,1	Gc (ex Ec):1/Px (ex Sf):2,3		●	1,0	orange	
Saswing RZ F1	Fom:0,1,2	Gc (ex Ec):1/Px (ex Sf):2,3,5/Ag	●		1,0	orange	AG
Long shelf life							
Acropol RZ F1	Fom:0,1,2	Gc (ex Ec):1/Px (ex Sf):2,3,5/Ag		●	1,0	orange	AG
Agustino RZ F1	Fom:0,1,2	Px (ex Sf):2,5/Ag		●	1,0	orange	
Barriol RZ F1	Fom:0,1,2	Gc (ex Ec):1/Px (ex Sf):2,5/Ag		●	1,0	orange	AG
Naciol RZ F1	Fom:0,1,2	Gc (ex Ec):1/Px (ex Sf):2,5	●		1,0	orange	
Signal RZ F1	Fom:0,1,2	Gc (ex Ec):1/Px (ex Sf):2,5/Ag	●		1,0	orange	AG





Eastern shipper Melon

Fruit crops

Variety	Hr	lr	Protected	Open field	Fruit weight (kg)	Flesh Colour	Product line / Label
Aromatic							
Donar RZ F1	Fom:0,1,2	Gc (ex Ec):1/Px (ex Sf):2,3,5	●		1,8	orange	
Pallar RZ F1	Fom:0,1,2	Gc (ex Ec):1/Px (ex Sf):2,5	●		1,8	orange	
Temar RZ F1	Fom:0,1,2	Gc (ex Ec):1/Px (ex Sf):2,5		●	1,8	orange	
Long shelf life							
34-683 RZ F1	Fom:0,1,2	Px (ex Sf):1,2,5	●		1,5	orange	



Western Shipper Melon



Variety	Hr	Ir	Protected	Open field	Fruit weight (kg)	Flesh Colour	Product line / Label
Aromatic							
34-741 RZ F1 (t)	Fom:0,1,2	Px (ex Sf):2,5		●	2,0	orange	
34-742 RZ F1 (t)	Fom:0,1,2	Gc (ex Ec):1/Px (ex Sf):2,3,5		●	2,0	orange	
Long shelf life							
Caribbean Diamond RZ F1	Fom:0,1,2	Gc (ex Ec):1/Px (ex Sf):1,2,3,5/Ag		●	2,0	orange	
Caribbean Dream RZ F1	Fom:0,1,2	Px (ex Sf):2,3,5		●	1,5	orange	
Caribbean Gold RZ F1	Fom:0,1,2	Px (ex Sf):2/Ag		●	2,5	orange	
Caribbean King RZ F1	Fom:0,1,2	Px (ex Sf):2,3,5		●	3,0	orange	
Caribbean Queen RZ F1	Fom:0,1,2	Gc (ex Ec):1/Px (ex Sf):2,3,5		●	3,5	orange	
Gold - Long shelf life							
Caribbean Sunbeam RZ F1	Fom:0,1,2	Gc (ex Ec):1/Px (ex Sf):2,5/Ag		●	2,5	orange	Caribbean Oro

(t) For trial purposes only; not for commercial exploitation





Galia Melon





Fruit crops

Variety	Hr	lr	Protected	Open field	Fruit weight (kg)	Flesh Colour	Product line / Label
Aromatic							
Jucar RZ F1	Fom:0,1	Gc (ex Ec):1/Px (ex Sf):2,5		●	1,5 - 2,0	white	
Mirella RZ F1	Fom:0,1	Gc (ex Ec):1/Px (ex Sf):2,5		●	0,7	white	
Montseny RZ F1	Fom:0,1	Px (ex Sf):2,3,5		●	2,2	green	
Long shelf life							
Babilonia RZ F1	MNSV/Fom:0,1,2	Gc (ex Ec):1/Px (ex Sf):2,3,5		●	1,0	green	
Tenorio RZ F1	MNSV/Fom:0,1,2	Px (ex Sf):2,5/Ag		●	1,2	green	



Yellow Melon



Variety	Hr	Ir	Protected	Open field	Fruit weight (kg)	Flesh Colour	Product line / Label
Caimital RZ F1	Fom:0,1,2	Gc (ex Ec):1/Px (ex Sf):2,3,5		●	1,5	white	
Ducral RZ F1	Fom:0,2	Gc (ex Ec):1/Px (ex Sf):2,5		●	1,5	white	
Gladial RZ F1	Fom:0,2	Gc (ex Ec):1/Px (ex Sf):1,2,5		●	1,5 - 2,0	white	  Yellissimo
Lual RZ F1	Fom:0,1	Gc (ex Ec):1/Px (ex Sf):2,3,5		●	1,2	white	
Natal RZ F1	Fom:0,2	Gc (ex Ec):1/Px (ex Sf):2		●	1,2	white	
Pekin RZ F1	Fom:0,2	Gc (ex Ec):1/Px (ex Sf):2,5		●	1,5	white	
Tikal RZ F1	Fom:0,1,2	Gc (ex Ec):1/Px (ex Sf):1,2		●	1,0	white	 Yellissimo
Yeral RZ F1	Fom:0,2	Gc (ex Ec):1/Px (ex Sf):2,5		●	1,2	white	





Piel de Sapo

Variety	Hr	lr	Protected	Open field	Fruit weight (kg)	Flesh Colour	Product line / Label
Bravura RZ F1	Fom:0,1,2	Gc (ex Ec):1/Px (ex Sf):2,5/Ag	●	●	1,5 - 3,0	white	Mellisimo
Finura RZ F1	Fom:0,1	Gc (ex Ec):1/Px (ex Sf):2,5/Ag		●	2,5 - 3,5	white	
Reymiel RZ F1	MNSV/Fom:0,1	Gc (ex Ec):1/Px (ex Sf):2,3,5		●	3,5	white	
Ricura RZ F1	MNSV/Fom:0,1	Gc (ex Ec):1/Px (ex Sf):2,5	●	●	1,0 - 2,0	white	Mellisimo

Kirkagaç

Variety	Hr	lr	Protected	Open field	Fruit weight (kg)	Flesh Colour	Product line / Label
Beyege RZ F1	Fom:0,2	Gc (ex Ec):1/Px (ex Sf):2		●	2,5 - 3,0	white	

Honeydew

Variety	Hr	lr	Protected	Open field	Fruit weight (kg)	Flesh Colour	Product line / Label
Sweetball RZ F1	Fom:0,2	Gc (ex Ec):1/Px (ex Sf):2,5/Ag	●	●	1,5	white	

Branco

Variety	Hr	lr	Protected	Open field	Fruit weight (kg)	Flesh Colour	Product line / Label
Portoalto RZ F1	Fom:0,2	Gc (ex Ec):1/Px (ex Sf):2,3,5/Ag	●	●	3,5	white	Gostissimo
Portomira RZ F1	Fom:0,2	Gc (ex Ec):1/Px (ex Sf):2,5		●	3,0	white	Gostissimo



Rootstock



Resistance codes

ToMV = *Tomato mosaic virus*

Tomato mosaic

PVY = *Potato Y virus*

Potato Y

Fol = *Fusarium oxysporum f.sp. lycopersici*

Fusarium wilt

Fom = *Fusarium oxysporum f. sp. melonis*

Fusarium wilt

Fon = *Fusarium oxysporum f. sp. Niveum*

Fusarium wilt

For = *Fusarium oxysporum f.sp.*

radicis-lycopersici

Fusarium crown and root rot

Pl = *Pyrenochaeta lycopersici*

Corky root rot

Va = *Verticillium albo-atrum*

Verticillium wilt

Vd = *Verticillium dahliae*

Verticillium wilt

Ma = *Meloidogyne arenaria*

Root-knot

Me = *Meloidogyne mayaguensis* (Syn. *M.*

enterolobii)

Root-knot

Mi = *Meloidogyne incognita*

Root-knot

Mj = *Meloidogyne javanica*

Root-knot

Px (ex Sf) = *Podosphaera xanthii*

Powdery mildew



Solanaceae

Variety	Hr	Ir	Recommended for	Heated	Protected	Open field	Product line / Label
Luopersicum Tomato							
Anchor RZ F1	ToMV:0-2/Fol:0,1/For/Va:0/Vd:0*	Ma/Mi/Mj	tomato		•	•	
Emperador RZ F1	ToMV:0-2/Fol:0,1/For/Pl/Va:0/Vd:0	Ma/Mi/Mj	tomato	•	•		NCT
Endam RZ F1	ToMV:0-2/Fol:0-2/For/Pl/Va:0/Vd:0	Ma/Mi/Mj	tomato		•		
Kaiser RZ F1	ToMV:0-2/Fol:0,1/For/Pl/Va:0/Vd:0	Ma/Mi/Mj	tomato, heated eggplant	•	•		NCT
King Kong RZ F1	ToMV:0-2/Fol:0,1/For/Pl/Va:0/Vd:0	Ma/Mi/Mj	tomato		•	•	NCT
Rampart RZ F1	ToMV:0-2/Fol:0,1/For/Va:0/Vd:0*	Ma/Mi/Mj	tomato		•	•	
Shelter RZ F1	ToMV:0-2/Fol:0,1/For/Va:0/Vd:0*	Ma/Mi/Mj	tomato		•	•	
Shield RZ F1	ToMV:0-2/Fol:0,1/For/Va:0/Vd:0*	Ma/Mi/Mj	tomato		•	•	
Yedi RZ F1	ToMV:0-2/Fol:0,1/For/Pl/Va:0/Vd:0	Ma/Mi/Mj	tomato		•	•	
Solanum Aubergine							
Conan RZ		Vd/Mi/Me	eggplant		•	•	
Capsicum Pepper							
Foundation RZ F1	PVY:0,1/Tm:0	Pc/Ma/Mi/Mj	pepper	•	•	•	

Cucurbitaceae

Variety	Hr	Ir	Recommended for	Heated	Protected	Open field	Product line / Label
Affyne RZ F1	Fom:0,1,2,1,2	Fon:0-2/For/Va	cucumber	•	•		NCT
Cobalt RZ F1	Fom:0,1,2,1,2/For/Va	Fon:0-2	cucumber, melon and watermelon		•	•	
Ferro RZ F1	Fom:0,1,2,1,2/For/Va	Fon:0-2	cucumber, melon and watermelon		•	•	NCT
Pelops RZ	Fom:0,1,2,1,2/Va	Fon:0-2	watermelon		•	•	
Sphinx RZ F1	Fom:0,1,2	Fom:1,2/Px (ex Sf):2,3,5	melon		•	•	

* in this variety a good level of resistance to Ralstonia has been observed in tests under various conditions at different locations.



Beetroot



Beetroot are a traditional ingredient in many cuisines around the world. Its specific, sweet taste, deep red colour and good shelf life make beetroot a popular and healthy vegetable.

Crop in development

Rijk Zwaan offers a growing range of specific hybrids in the most important segments: round and smooth for the fresh market, high round and high yielding for industry, and elongated types for efficient processing. Our new introductions Belushi RZ and Monty RZ offer a new standard in brix and betanin content combined with a high, uniform production.





Variety	Fresh	Industry	Product line / Label
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Long

Carillon RZ		•	❄️ NCT
Lomako RZ		•	❄️



Variety	Fresh	Industry	Product line / Label
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Round

13-205 RZ F1 (t)	•		
Belushi RZ F1	•	•	🌱
Libero RZ	•	•	❄️ NCT
Monty RZ F1		•	❄️ 🌱 NCT
Zeppo RZ F1	•		NCT

(t) For trial purposes only; not for commercial exploitation



Carrot



Carrots are grown worldwide and are offered in many different product forms; bunched, washed, sliced and juiced. They are used fresh for their crisp, sweet flavour and nutritional content.

With an increasing interest for snack vegetables, carrots are becoming a popular convenience. Besides selecting on agronomic traits such as foliage quality, uniformity, shape, colour, smoothness and shelf life, Rijk Zwaan also selects varieties on the basis of taste and nutritional values.

Rijk Zwaan has a strong position in the industry segment and is developing a broad range of varieties for the fresh market. By starting up activities in China, India and Brazil, we have intensified our programme for collecting reliable data on our new introductions. As a result we aim to offer stable, reliable, healthy and tasty varieties.





Variety	Maturity after sowing	Sowing density	Washing	Bunching	Product line / Label
Nantes					
Chipiona RZ F1	80	1.6-2.0 mpc / ha		•	NCT
Crofton RZ F1	130	1.8-2.2 mpc / ha	•	•	NCT, NCT, NCT, NCT
Fidra RZ F1	110	1.4-1.8 mpc / ha	•	•	NCT, NCT
Jerada RZ F1	90	1.2-1.6 mpc / ha	•	•	NCT, NCT
Morelia RZ F1	120	1.0-1.8 mpc / ha	•		NCT
Monanta RZ	110	1.2-1.6 mpc / ha	•		NCT



Variety	Maturity after sowing	Sowing density	Washing	Bunching	Product line / Label
Processing					
Karotan RZ	150	0.6-1.0 mpc / ha			NCT, NCT, NCT
Trafford RZ F1	130	0.6-1.0 mpc / ha			NCT, NCT, NCT
Warmia RZ F1	150	0.6-1.0 mpc / ha			NCT, NCT, NCT



Broccoli



Broccoli is considered to be one of the healthiest vegetables of the Brassica family. Rijk Zwaan has a relatively young breeding programme in broccoli, but we do see good opportunities for improvement in this growing crop.

Worldwide

With important markets in North, Central and South America, the Far East and Europe, broccoli is a global crop. As with cauliflower, there are special variety requirements for the fresh market as well as for industry purposes. Rijk Zwaan aims to offer varieties for all markets and adapted to local growing conditions.

One of our earliest introductions, Agassi RZ, is gaining popularity for its tolerance to extreme warm and dry conditions.

Resistance codes

Foc = *Fusarium oxysporum f.sp. conglutinans*
Fusarium yellows





Broccoli

Variety	Hr	Fresh market	Processing	Spring	Summer	Autumn	Winter	Maturity after transplanting	Plants/ha	Product line / Label
Agassi RZ F1	Foc:1	•	•		•			85	45.000 -110.000	❄️ NCT
Cuitzeo RZ F1		•	•				•	95	45.000 -110.000	
Izabel RZ F1		•	•			•		85	45.000 -110.000	
Kariba RZ F1 (t)		•	•	•			•	80	45.000 -110.000	
Monfils RZ F1	Foc:1	•	•	•				85	45.000 -110.000	NCT
Orantes RZ F1		•	•			•		85	45.000 -110.000	
Reggj RZ F1		•	•				•	95	45.000 -110.000	
Tahoe RZ F1	Foc:1	•	•	•	•		•	85	45.000 -110.000	❄️ NCT
Vicario RZ F1 (t)		•	•	•				80	45.000 -110.000	

(t) For trial purposes only; not for commercial exploitation



Brassica

Head Cabbage



Head cabbage is an important staple crop worldwide, well appreciated in different cultures and adapted to most climatic circumstances. Its multiple nutritional values are regaining consumers' and processors' interest, indicating a great future for this popular vegetable. Within the main types there is a wide diversity in shapes, sizes, taste and textures. Rijk Zwaan offers individual choices within each type.

Rijk Zwaan has a strong position in early season varieties, including a new “Sensational Traditional Line” for pointed cabbage. For both white and red cabbage there is a successful assortment for late season marketing and where cool storage is available, where we are paying special attention to long-term storability. Our range covers all segments in the fresh market, together with varieties with specific traits for the processing industry and dual purpose varieties in different sizes.

Grower values have a major impact on our variety development, like field performance, harvesting window and shelf-life. In order to meet yield and quality expectations, Rijk Zwaan is investing strongly in breeding for resistances against diseases and pests. Specific research facilities around the world enable us to test our breeding material under most extreme conditions.

With Tacoma RZ and Multima RZ we present two highly adaptable semi-flat white cabbage varieties, providing an outstanding healthy crop with a high thrips tolerance. Their fine internal structure and mild taste is perfect for many traditional uses and local recipes.






Resistance codes

Foc = *Fusarium oxysporum* f.sp. *conglutinans*
Fusarium yellows

Brassica

Pointed Cabbage



Variety	Hr	fresh market	processing	storage	maturity after transplanting	plants/ha	head weights in kg	Product line / Label
Sonsma RZ F1		•			50 - 60	40.000 - 70.000	0,8 - 2,0	 NCT
Teama RZ F1	Foc.1	•			> 65	40.000 - 65.000	1,0 - 2,2	 NCT
Tourima RZ F1		•			60 - 70	40.000 - 100.000	0,5 - 1,5	 NCT





Red
Cabbage





Variety	Hr	fresh market	processing	storage	maturity after transplanting	plants/ha	head weights in kg	Product line / Label
Futurima RZ F1		●	●	●	120 - 150	22.000 - 35.000	2,0 - 5,0	
Red Charisma RZ F1		●			95 - 115	40.000 - 60.000	1,0 - 2,5	-
Redma RZ F1		●	●		80 - 110	30.000 - 50.000	1,5 - 4,0	
Resima RZ F1		●		●	125 - 140	30.000 - 60.000	1,0 - 3,0	
Rexoma RZ F1		●		●	110 - 140	35.000 - 45.000	1,5 - 3,5	-
Rodima RZ F1		●	●	●	120 - 140	25.000 - 45.000	2,0 - 4,0	



Brassica

Savoy Cabbage



Variety	Hr	fresh market	processing	storage	maturity after transplanting	plants/ha	head weights in kg	Product line / Label
Estrema RZ F1	Foc:1	●	●		80 - 100	30.000 - 45.000	1,5 - 3,5	 NCT
Madlene RZ F1	Foc:1	●			85 - 100	35.000 - 45.000	1,3 - 2,8	 NCT
Morama RZ F1		●	●		100 - 120	30.000 - 40.000	1,7 - 4,0	  NCT





White Cabbage

Variety	Hr	fresh market	processing	storage	maturity after transplanting	plants/ha	head weights in kg	Product line / Label
Adema RZ F1		●			60 - 70	40.000 - 60.000	1,0 - 2,5	NCT
Ancoma RZ F1	Foc:1	●	●	●	110 - 135	25.000 - 35.000	2,5 - 5,0	🌱 ❄️ NCT
Cilema RZ F1		●	●		70 - 85	30.000 - 45.000	1,5 - 3,5	❄️ NCT
Flexima RZ F1 (3)	Foc:1	●		●	120 - 130	30.000 - 60.000	1,2 - 3,5	
Gintama RZ F1	Foc:1	●			85 - 100	30.000 - 45.000	1,8 - 4,0	
Jetma RZ F1	Foc:1	●			50 - 55	40.000 - 60.000	0,8 - 2,0	NCT
Kalorama RZ F1		●		●	130 - 150	35.000 - 70.000	1,0 - 3,0	🌱
Lagrima RZ F1	Foc:1	●	●	●	120 - 140	25.000 - 40.000	2,0 - 5,5	
Lemma RZ F1		●			54 - 60	40.000 - 60.000	0,7 - 1,8	
Mucsuma RZ F1	Foc:1	●	●	●	130 - 140	25.000 - 40.000	2,0 - 5,0	🌱 NCT
Multima RZ F1	Foc:1	●			85 - 100	30.000 - 45.000	1,7 - 4,0	NCT
Oriema RZ F1		●			80 - 90	40.000 - 60.000	1,0 - 3,0	NCT
Pushma RZ F1		●			55 - 63	40.000 - 55.000	0,8 - 2,2	
Secoma RZ F1	Foc:1	●	●		90 - 110	30.000 - 40.000	2,0 - 5,5	❄️ NCT
Selma RZ F1		●	●		100 - 130	25.000 - 35.000	3,0 - 6,0	❄️
Septima RZ F1	Foc:1		●		120 - 140	25.000 - 35.000	3,5 - 7,0	❄️
Storema RZ F1		●	●	●	130 - 150	30.000 - 45.000	1,5 - 4,0	NCT
Tacoma RZ F1	Foc:1	●			75 - 90	30.000 - 50.000	1,5 - 3,5	NCT
Toughma RZ F1		●			70 - 85	50.000 - 90.000	0,5 - 2,0	NCT
Zuleima RZ F1		●	●		100 - 135	25.000 - 35.000	2,5 - 6,0	❄️ NCT



Brassica

Cauliflower



Rijk Zwaan has extensive experience in cauliflower and we have created a broad range of reliable varieties adding value to the entire product chain. We aim to develop varieties which give a stable performance under changing weather conditions for all growing conditions.

Fresh and industry

Rijk Zwaan has cauliflower varieties especially bred for different seasons and climatic conditions, suitable for the fresh market, industry and dual purpose varieties. For fresh market Rijk Zwaan offers varieties with stable, dense white curds and for industry varieties with a good yield and a high percentage of usable florets.

Resistance and diversity

Besides reliability, uniformity, curd quality and leaf coverage, we invest strongly in developing varieties more resistant to pests and diseases. Alongside the traditional, white cauliflower, Rijk Zwaan has a number of specialities in the range, such as the green cauliflower Vitaverde RZ and the romanesco type Puntoverde RZ giving additional value to the entire chain

Resistance codes

Foc = *Fusarium oxysporum f.sp. conglutinans*
Fusarium yellows

Mb = *Mycosphaerella brassicicola*
Ring spot





Cauliflower

Variety	Hr	Fresh market	processing	Spring	Summer	Autumn	Winter	Maturity after transplanting	Plants/ha	Product line / Label
Green cauliflower										
Vitaverde F1		•	•	•	•	•	•	70-85	25-50.000	🍷 NCT
Romanesco										
Puntoverde F1	Mb	•	•	•	•	•	•	75-95	25-45.000	❄️
White cauliflower										
Bishop RZ F1		•	•	•	•	•		68-85	25-40.000	❄️ NCT
Casper RZ F1		•	•	•	•	•		75-95	25-45.000	❄️ NCT
Castellum RZ F1		•	•			•	•	90-105	22-35.000	
Cercy RZ F1		•	•		•	•	•	80-100	25-40.000	❄️
Chambord RZ F1		•	•	•	•	•		68-85	25-40.000	❄️ NCT
Denali RZ F1		•	•		•	•		80-100	22-40.000	📦 ❄️ NCT
Dexter RZ F1		•	•		•	•	•	80-100	22-40.000	📦 ❄️ NCT
Klamath RZ F1		•	•	•		•	•	90-110	25-45.000	
Miramonte RZ F1		•		•				58-75	35-55.000	NCT
Moneera RZ F1		•		•	•	•		58-75	35-55.000	NCT
Neblina RZ F1		•		•		•		70-90	25-45.000	❄️
Ponderet RZ F1		•				•	•	65-80	40-55.000	
Prudentia RZ F1		•		•				60-78	35-55.000	
Santamaria RZ F1		•	•		•	•		80-95	22-38.000	NCT
Sententia RZ F1		•	•	•	•	•	•	90-110	25-45.000	
Shereen RZ F1		•		•	•	•		60-78	35-55.000	
Sierra Madre RZ F1		•	•			•	•	80-100	25-40.000	❄️
Soledad RZ F1	Foc:1	•		•		•	•	78-100	25-45.000	
Stabilis RZ F1		•		•		•		70-90	25-45.000	❄️
Vashon RZ F1	Foc:1	•	•	•	•	•	•	78-100	25-45.000	

Brassica



Kohlrabi



Kohlrabi is the round, bulbous stem of a cabbage plant. Eaten cooked or raw, this vegetable is popular in parts of Europe and Asia in particular. Rijk Zwaan has had a leading position in the European market since time immemorial, with an outstanding presentation and ever more labour-friendly varieties.

Range

Kohlrabi is grown mainly in Germany from spring till autumn and in Spain and Italy in autumn/winter. The extensive Rijk Zwaan range comprises specific varieties for each region, so that a quality product can be grown right through the year. Alongside varieties for the fresh market we also have industry varieties. The kohlrabi grows into a fair-sized globe, weighing more than a kilo, and is then peeled, cubed and processed.

Nice shape

Our kohlrabi varieties are characterised by a nice, regular shape. With this presentation Rijk Zwaan is clearly distinguishable as a kohlrabi company. The erect and uniform crop also makes the kohlrabi easy to harvest and it is hardly susceptible to basal diseases. Reliability is another aspect of the crop we pay a lot of attention to in our selection work.

New applications

We continue to look for improvements of our current range: better resistances and an even more labour-friendly crop. But we also watch developments in the food market very closely; for instance, those in the area of convenience vegetables. Giving kohlrabi a different flavour or making it smaller might well open up new applications for this vegetable.





Kohlrabi

Variety	Fresh market	Indoor	Processing	Spring	Summer	Autumn	Winter	Product line / Label
Eder RZ F1	•	•	•	•	•	•		❄️ NCT
Lech RZ F1	•				•			🐛
Morre RZ F1	•				•	•	•	NCT
Terek RZ F1	•	•	•	•	•	•		❄️
Volturmo RZ F1	•				•	•	•	



Brassica

Endive



Endive is an important leafy vegetable, as a component of salads as well as a cooked vegetable. Endive stands out for its robust leaves, unique taste and it offers potentially beneficial health properties in abundance. Rijk Zwaan develops varieties suitable for all the main segments of the market focussing on improving the agronomical and consumer related aspects of the crop.

Year-round quality

Within endive two main types can be distinguished; smooth leaved endive and frisée endive. Both types are used in salads or can be cooked, in a wide range of dishes due to the versatility which endive offers. Different cultures have different preferences towards colour ranging from blonde to dark green and the leaf shape is also an important aspect where processing is concerned. In some regions the heart is considered as the premium part of the product due to its brightly colour and soft texture qualities, which can make it a succulent, high quality addition to any meal.

For agronomic purposes varieties should also demonstrate good yield, bolting tolerance and be strong against tip burn, whilst being able to endure hot and cold conditions. Rijk Zwaan is focussed on developing all of these aspects and the new generation of Rijk Zwaan endive varieties demonstrate good improvements in all of these key criteria.





Variety	Spring	Summer	Autumn	Winter	Over-Winter	Product line / Label
Fine Frisee / Tres Fine Maraichere						
Korbi RZ		•				☑ NCT
Frisee / Curly						
Avral RZ		•	•			
Cigal RZ	•	•	•			☑ NCT
Lineal RZ	•					
Timehal RZ	•		•			
Smooth						
Anconi RZ		•	•			
Demitri RZ				•	•	
Kethel RZ	•	•	•			☑ 🐦
Torino RZ				•		☑ ❄️ NCT



Leaf crops

Lettuce

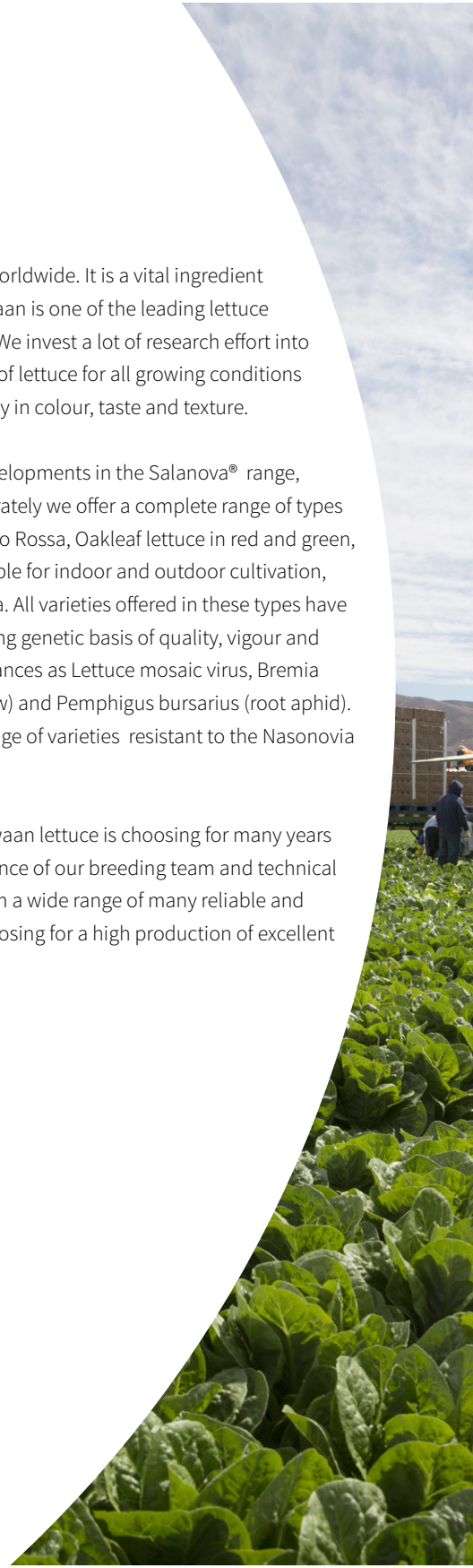


Worldwide range of successful varieties

Lettuce is an important leaf vegetable worldwide. It is a vital ingredient for a healthy, fresh-food diet. Rijk Zwaan is one of the leading lettuce breeding companies in the world. We invest a lot of research effort into finding new and better varieties of lettuce for all growing conditions and developing a wide diversity in colour, taste and texture.

Apart from unique new developments in the Salanova® range, which are presented separately we offer a complete range of types such as Lollo Bionda, Lollo Rossa, Oakleaf lettuce in red and green, Butterhead lettuce suitable for indoor and outdoor cultivation, Iceberg, Cos and Batavia. All varieties offered in these types have been selected on a strong genetic basis of quality, vigour and a wide pattern of resistances as Lettuce mosaic virus, *Bremia lactucae* (downy mildew) and *Pemphigus bursarius* (root aphid). We offer a complete range of varieties resistant to the *Nasonovia ribisnigri* aphid.

Choosing to grow Rijk Zwaan lettuce is choosing for many years of dedication and experience of our breeding team and technical advisors. It is choosing from a wide range of many reliable and successful varieties. It is choosing for a high production of excellent leaf shape, sizes and quality.





Resistance codes

LMV = *Lettuce Mosaic Virus*

Lettuce mosaic

Bl = *Bremia lactucae*

Downy mildew

Fol = *Fusarium oxysporum f.sp. lactucae*

Fusarium wilt

Me = *Macrosiphum euphorbiae*

Potato aphid

Ss (Rs) = *Sphingomonas suberifaciens* (ex

Rhizomonas suberifaciens)

Corky root

Nr = *Nasonovia ribisnigri*

Lettuce leaf aphid

Pb = *Pemphigus bursarius*

Lettuce Root Aphid

Batavia

Lettuce



Variety	Hr	Ir	Protected	Hydroponic	Open field	Spring	Summer	Autumn	Winter	Product line / Label
Batavia Green										
81-47 RZ	Bl:16-32/Nr:0/Pb	LMV:1			•	•		•	•	
81-86 RZ	Bl:16-28,30-32/Nr:0/Pb	LMV:1			•	•	•	•	•	
Aficion RZ	Bl:16,21,23,32		•	•	•	•		•	•	
Decision RZ	Bl:16-32/Nr:0	LMV:1			•	•	•	•		
Donertie RZ	Bl:16-32/Nr:0		•			•		•		
Emocion RZ	Bl:16-28,30-32/Nr:0/Pb	LMV:1			•	•	•	•	•	NCT
Ersilie RZ	Bl:16-32/Nr:0/Pb		•			•		•		
Fonseca RZ	Pb				•	•		•		
Hettie RZ	Bl:16-32/Nr:0	LMV:1	•			•		•		
Impression RZ	Bl:16-32/Nr:0	LMV:1			•	•	•	•		
Impulsion RZ	Bl:16,18-24,27,28,30-32	LMV:1	•		•	•	•	•		NCT
Intuition RZ	Bl:16-32/Nr:0	LMV:1		•	•	•		•		
Invicta RZ	Pb				•	•	•	•	•	
Jonction RZ	Bl:16-28,30-32/Nr:0	Fol:1	•	•	•	•	•	•	•	NCT
Lition RZ	Bl:16-28,30-32/Nr:0/Pb				•	•	•	•		
Madie RZ	Bl:16-32/Nr:0		•			•		•	•	
Modulation RZ	Bl:16-32/Nr:0	LMV:1			•		•	•		
Ostralie RZ	Bl:16-32/Nr:0		•			•		•		
Othilie RZ	Bl:16-32/Nr:0/Pb	LMV:1/Fol:1	•	•		•	•	•	•	
Pantion RZ	Bl:16-32/Nr:0	LMV:1			•	•	•	•		
Paratie RZ	Bl:16-32/Nr:0/Pb		•	•					•	
Partition RZ	Bl:16-32/Nr:0	LMV:1		•	•	•	•	•		
Reaction RZ	Bl:16-28,30-32/Nr:0/Pb				•	•	•	•		
Solasie RZ	Bl:16-32/Nr:0		•					•		
Starfighter RZ	Bl:16-25,27,28,30-32/Nr:0/Pb				•	•		•	•	
Tokapie RZ	Bl:16-26,28,31,32/Pb	LMV:1	•	•	•	•	•	•	•	
Tourbillon RZ	Bl:16-28,30-32/Nr:0/Pb	LMV:1			•	•	•	•		



Variety	Hr	Ir	Protected	Hydroponic	Open field	Spring	Summer	Autumn	Winter	Product line / Label
Batavia Red										
Cherokee RZ	Bl:16,21,23,32				•	•		•	•	
Louxal RZ	Bl:16-32/Nr:0	LMV:1			•	•		•	•	
Novelski RZ	Bl:16-28,30-32/Nr:0				•	•	•	•		
Redial RZ	Bl:16-32/Nr:0				•	•	•	•		
Ruby sky RZ	Bl:16,17,21,23,32/Nr:0	LMV:1			•	•		•		



Leaf crops

Butterhead Lettuce



Variety	Hr	Ir	Protected	Hydroponic	Open field	Spring	Summer	Autumn	Winter	Product line / Label
Blond/Green										
Abago RZ	Bt:16-31/Nr:0	LMV:1			•	•		•		
Adantia RZ	Bt:16-32/Nr:0		•			•	•	•		
Alexandria RZ	Bt:16-23,25,31,32/Pb		•			•	•	•		
Almagro RZ	Bt:16-32/Nr:0/Pb	LMV:1			•	•	•	•	•	
Ballerina RZ	Bt:16,17,21,23,32	LMV:1			•		•	•	•	
Carasco RZ	Bt:16-32/Nr:0	LMV:1			•	•	•	•		
Cosmopolia RZ	Bt:16-25,27,28,30-32/Nr:0/Pb	LMV:1	•	•		•	•	•		
Diola RZ	Bt:16-30,32/Pb		•						•	
Dubriano RZ	Bt:16-32/Nr:0	LMV:1			•	•	•	•		
Fabietto RZ	Bt:16-22,24,25,28-32/Nr:0/Pb	LMV:1			•	•		•	•	NCT
Filinia RZ	Bt:16-31/Pb		•					•	•	
Flandria RZ	Bt:16,17,21,23,32		•	•		•	•	•	•	
Forlina RZ	Bt:16-28,30-32/Nr:0	LMV:1			•		•			
Gardia RZ	Bt:16-27,29,30,32		•	•		•		•		
Gisela RZ	Bt:16-27,29,30,32/Nr:0	LMV:1/Me			•	•	•	•		
Halewyn RZ	Bt:16-31		•	•		•		•	•	
Hungarina RZ	Bt:16-32/Nr:0	LMV:1			•	•	•		•	
Iveta RZ	Bt:16-32/Pb		•						•	
Janero RZ	Bt:16-32/Nr:0	LMV:1			•	•		•		
Jiska RZ	Bt:16-24,27,28,30-32/Nr:0	LMV:1			•	•		•		
Jolito RZ	Bt:16-31/Nr:0	LMV:1			•	•	•	•		
Judita RZ	Bt:16-28,30-32/Pb		•			•		•	•	
Lavendria RZ	Bt:16-25,27-32/Nr:0		•			•	•	•		
Matrica RZ	Bt:16-32/Nr:0/Pb	LMV:1			•	•	•	•		
Millennia RZ	Bt:16-31/Nr:0		•			•	•	•		
Nadine RZ	Bt:16,17,21,23,32	LMV:1			•	•		•	•	
Natalia RZ	Bt:16-26,28,31,32/Pb		•	•		•	•	•		
Ondatra RZ	Bt:16-32		•						•	
Pazmanea RZ	Bt:16-32/Pb		•	•				•	•	
Penelope RZ	Bt:16-25,27-32/Pb		•						•	
Rex RZ	Bt:17,18,22,24,25,28-30		•	•		•	•	•	•	
Sandalina RZ (t)	Bt:16-32/Nr:0/Pb	LMV:1			•	•		•	•	
Santoro RZ	Bt:16-22,24,25,28-32/Nr:0/Pb	LMV:1			•	•	•	•		NCT
Sintia RZ	Bt:16-32		•	•		•	•	•		
Speedway RZ	Bt:16-27,29,30,32/Nr:0	LMV:1			•	•				



Butterhead Lettuce

Variety	Hr	Ir	Protected	Hydroponic	Open field	Spring	Summer	Autumn	Winter	Product line / Label
Blond/Green										
Tahamata RZ	Bl:16-22,24,25,28-32/Nr:0/Pb		•	•		•	•	•	•	
Torpedo RZ	Bl:16-22,25,31,32/Pb		•			•		•	•	NCT
Wengen RZ	Bl:16-32		•			•		•	•	W
Weston RZ	Bl:16-31	LMV:1	•			•		•	•	W
Wiske RZ	Bl:16-30,32/Pb		•	•		•		•	•	NCT
Red										
Soliflore RZ	Bl:16-32/Nr:0	LMV:1			•	•	•	•	•	W
Teodore RZ	Bl:16-32		•	•					•	NCT

(t) For trial purposes only; not for commercial exploitation



Leaf crops

Cos Lettuce



Large Cos

Variety	Hr	lr	Protected	Hydroponic	Open field	Spring	Summer	Autumn	Winter	Product line / Label
Green										
41-106 RZ (t)	Bl:16-32/Nr:0	LMV:1/Ss (Rs)			•	•		•	•	
41-178 RZ (t)	Bl:16-32/Nr:0	LMV:1/Ss (Rs)		•	•	•	•	•	•	
Helvius RZ	Bl:16-27,29,30,32/Nr:0	LMV:1/Ss (Rs)			•	•	•	•	•	NCT
Hierro RZ	Bl:16-22,25,31,32/Pb	LMV:1		•	•	•	•	•	•	
Maximus RZ	Bl:16-27,29,30,32	Ss (Rs)			•	•	•	•	•	NCT
Publius RZ (t)	Bl:16-30,32/Nr:0	Ss (Rs)		•	•	•	•	•		
Quintus RZ	Bl:16-20,22-25,28-30,32/Fol:1/Nr:0	LMV:1			•	•	•	•		NCT
Tiberius RZ	Fol:1				•	•		•	•	
Blond										
Aurelius RZ	Bl:16-32/Fol:1/Nr:0	LMV:1/Ss (Rs)		•	•	•	•	•		
Avidius RZ	Bl:16-28,30-32/Pb	LMV:1			•	•	•	•		NCT
Carolus RZ	Bl:16-28,30-32/Fol:1/Nr:0		•		•	•		•	•	NCT
Cassiopea RZ	Bl:16,17,21,23,32/Fol:1		•			•			•	
Cervantes RZ	Bl:16-28,30-32/Nr:0	LMV:1			•		•	•		NCT
Domitius RZ	Bl:16-27,29,32/Fol:1		•						•	
Galdos RZ	Bl:16-28,30-32/Nr:0	LMV:1			•	•	•	•		
Gradara RZ	Bl:16-28,30-32/Fol:1/Nr:0/Pb	Ss (Rs)			•	•	•	•		
Neruda RZ	Bl:16-28,30-32/Nr:0	LMV:1			•	•	•	•		
Reverte RZ	Bl:16-32/Nr:0	LMV:1			•	•	•	•	•	
Valerius RZ	Bl:16-27,29,32/Fol:1/Nr:0		•			•		•		
Red										
Thurinus RZ	Bl:16-28,30-32/Nr:0/Pb	LMV:1	•	•	•	•	•	•	•	NCT

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Cos
Lettuce

Midi Cos

Variety	Hr	Ir	Protected	Hydroponic	Open field	Spring	Summer	Autumn	Winter	Product line / Label
Green										
Amadeus RZ	Bl:16,17,21,23,32	LMV:1			•	•	•	•	•	
Claudius RZ	Bl:16-26,28,31,32/Fol:1/Pb	LMV:1			•	•		•	•	

Small Cos

Variety	Hr	Ir	Protected	Hydroponic	Open field	Spring	Summer	Autumn	Winter	Product line / Label
Green										
Rafael RZ	Bl:16-20,22-25,28-30,32/Fol:1/Nr:0	LMV:1		•	•	•	•	•	•	
Ragol RZ	Bl:16-26,28,31,32/Nr:0/Pb				•	•		•	•	
Ralph RZ	Bl:16-27,29,30,32/Nr:0	LMV:1/Ss (Rs)		•	•	•	•	•	•	
Requena RZ	Bl:16-30,32/Nr:0	LMV:1			•	•		•	•	
Rincon RZ	Bl:16-28,30-32/Nr:0	LMV:1	•	•	•	•	•	•	•	
Riopar RZ	Bl:16-32/Nr:0	LMV:1			•	•	•	•	•	



Leaf crops

Little Gem

Lettuce



Variety	Hr	Ir	Protected	Hydroponic	Open field	Spring	Summer	Autumn	Winter	Product line / Label
Green										
41-402 RZ (t)	Bl:16-32/Nr:0	LMV:1			•	•		•	•	
Arganda RZ	Bl:16-27,29,30,32/Nr:0				•	•		•	•	
Astorga RZ	Bl:16-27,29,30,32	LMV:1		•	•	•	•	•		
Baeza RZ	Bl:16-26,28,32/Nr:0	LMV:1				•		•	•	
Bambi RZ				•	•	•		•		
Blanes RZ	Bl:16-26,28,32	LMV:1		•	•	•		•	•	
Jerte RZ	Bl:16-32	LMV:1			•				•	
Lucena RZ	Bl:16,21,23,32	LMV:1			•	•		•	•	
Olite RZ	Bl:16-28,30-32/Nr:0	LMV:1			•	•		•	•	NCT
Tarifa RZ	Bl:16-26,28,32	LMV:1	•	•	•	•	•	•	•	NCT
Tudela RZ	Bl:16,17,21,23,32/Fol:1	LMV:1	•	•	•	•	•	•		
Red										
Rosaine RZ	Bl:16-26,28,31,32/Nr:0/Pb			•	•	•	•	•	•	
Cegolaine RZ	Bl:16-28,30-32/Nr:0/Pb	LMV:1	•		•	•	•	•	•	W
Maraine RZ	Bl:16-32/Nr:0	Ss (Rs)			•	•		•	•	NCT

(t) For trial purposes only; not for commercial exploitation





Variety	Hr	Ir	Protected	Hydroponic	Open field	Spring	Summer	Autumn	Winter	Product line / Label
Green										
Auvona RZ	Bl:17-22,24-26,28,32/Fol:1				•	•	•	•	•	
Madelona RZ	Bl:16-32/Nr:0	Ss (Rs)		•	•	•	•	•	•	
Patrona RZ	Bl:16-32/Nr:0	LMV:1			•	•		•	•	
Red										
41-521 RZ (t)	Bl:16-26,28,32/Nr:0				•	•	•	•	•	

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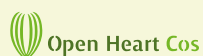


Open Heart Cos

The Open Heart Cos lettuce’s open habit makes it ideal for mechanical harvesting, either as loose leaves or whole heads for further processing. A single cut above the plant’s growing point reveals lots of strong, uniformly narrow leaves with solid veins. Practical trials have demonstrated that Open Heart Cos generates approximately 25% more usable product than a traditional cos lettuce.



Normal Cos compared to



Ideal for sandwiches

In addition to being suitable for inclusion in salad bags thanks to its excellent taste and attractiveness, this type offers particular advantages to manufacturers of sandwiches, baguettes and wraps. Its fine yet solid midribs do not crack, which reduces browning and hence extends the shelf life. Furthermore, the flexible leaves of Open Heart Cos do not squash the bread, which means that sandwiches remain appealing for longer.

Setting new standards

Open Heart Cos is unique in the way that it unites so many product benefits in one single product, thus raising the bar for new varieties. The first Open Heart Cos varieties were Actarus RZ, Easala RZ and Avidius RZ. The latest introductions combine an open habit with the savoyness that characterises true cos lettuce.

Crunchy Cos Lettuce



Variety	Hr	Ir	Protected	Hydroponic	Open field	Spring	Summer	Autumn	Winter	Product line / Label
Green										
Chicarita RZ	Bl:17,18,22,24,25,28-30/Fol:1/Nr:0	LMV:1			•	•		•	•	
Crunchita RZ	Bl:16-27,29,30,32/Nr:0			•	•	•	•	•	•	
Verodita RZ	Bl:16-30,32/Nr:0	Ss (Rs)		•	•	•	•	•	•	



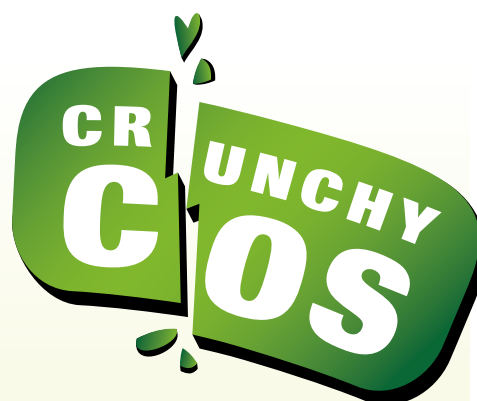
Crunchita RZ (41-101 RZ)

Rijk Zwaan's new 'Crunchy Cos' represents a very interesting alternative to cos or iceberg lettuce in salad bags. This innovative cos offers the best of both worlds: its leaves are just as elongated and green as those of a normal cos lettuce, both on the outside and the inside. In addition, they have the crisp and crunchy bite of an iceberg lettuce, and these combined characteristics create an excellent taste experience.

Crunchita RZ is the first variety of Crunchy Cos and has been designed for large-scale processing.

It is still a prototype, but the first trials with mechanical harvesting have been very promising. Furthermore, the variety is very strong against tipburn and has already been tested successfully in several different growing regions, where it proved to generate a reliable yield. Work is already well underway to develop new varieties to follow on from Crunchita.

Visit the Rijk Zwaan demo fields to see them for yourself!





Oak leaf Lettuce

Variety	Hr	Ir	Protected	Hydroponic	Open field	Spring	Summer	Autumn	Winter	Product line / Label
Green Oak										
Kiber RZ	Bl:16-31/Nr:0/Pb		•						•	
Kibrille RZ	Bl:16-31/Nr:0	LMV:1			•	•		•	•	
Kikerino RZ	Bl:16-32/Nr:0	LMV:1			•	•	•	•		
Kimpala RZ	Bl:16-32/Nr:0		•							
Kimpo RZ	Bl:16-32/Nr:0		•					•	•	
Kimpusta RZ	Bl:16-32/Nr:0		•			•			•	
Kipling RZ	Bl:16-26,28,32/Nr:0	LMV:1	•	•		•	•	•		
Kiprien RZ	Bl:16-32/Nr:0/Pb	LMV:1			•	•		•	•	
Kireve RZ	Bl:16-26,28,31,32/Nr:0/Pb	LMV:1	•	•	•	•	•	•	•	
Kiribati RZ	Bl:16-31/Nr:0	LMV:1		•	•	•	•	•	•	
Kirinia RZ	Bl:16-32/Nr:0	LMV:1		•	•	•	•	•		
Kitonia RZ	Bl:16-31/Nr:0/Pb		•	•		•		•		
Kristine RZ	Bl:16,17,21,23,32	LMV:1		•	•	•	•	•		
Red Oak										
83-02 RZ	Bl:16-32/Nr:0		•	•	•	•	•	•	•	
Cornouai RZ	Bl:16-32/Nr:0	LMV:1			•	•	•	•	•	
Jamaï RZ	Bl:16-23,25,31,32/Pb	LMV:1			•	•	•	•		
Mondaï RZ	Bl:16,21,23,32/Pb	LMV:1		•	•	•	•	•	•	
Murai RZ	Bl:16-27,29,30,32/Nr:0	LMV:1			•	•	•	•	•	
Nuansaï RZ	Bl:16-32/Nr:0				•	•	•	•		
Prunaï RZ	Bl:16-30,32/Nr:0/Pb	LMV:1	•	•	•	•	•	•	•	
Rouxai RZ	Bl:16-30,32/Nr:0		•	•	•	•	•	•	•	
Rutilai RZ	Bl:16-32/Nr:0	LMV:1	•	•	•	•	•	•	•	
Soupirai RZ	Bl:16-30,32/Nr:0		•	•					•	
Trouvai RZ	Bl:16-32/Nr:0	LMV:1			•	•	•	•		
Vitrai RZ	Bl:16-32/Nr:0	LMV:1			•	•	•	•		
Zoumai RZ	Bl:16-32/Nr:0		•	•		•		•	•	

Iceberg Lettuce



Variety	Hr	Ir	Hydroponic	Open field	Spring	Summer	Autumn	Winter	Product line / Label
45-140 RZ (t)	Bl:16-32/Nr:0/Pb								
Albanas RZ	Bl:16-26,28,31,32/Nr:0/Pb	LMV:1		•	•				NCT
Alpinas RZ	Bl:16-23,25,31,32/Nr:0/Pb			•			•	•	NCT
Argentinas RZ	Bl:16-26,28,31,32/Nr:0/Pb	LMV:1		•	•	•	•		
Arusha RZ	Bl:16-29,31,32/Pb			•	•	•	•		
Asturinas RZ	Bl:16-26,28,31,32/Nr:0/Pb	LMV:1			•	•	•		NCT
Bernardinas RZ	Bl:16-22,24-26,28,31,32/Nr:0/Pb	LMV:1		•	•		•		
Bruma RZ			•	•	•	•	•		
Campionas RZ	Bl:16,21,23,32/Nr:0			•	•				NCT
Cartagenas RZ	Bl:16,21,23,32/Nr:0			•	•	•	•		NCT
Chicago RZ	Bl:16,18,20,23-26,28,31			•				•	
Cornelianas RZ	Bl:16-32/Nr:0/Pb			•	•		•		NCT
Diamantinas RZ	Bl:16-32/Nr:0			•	•	•	•		NCT
Dornas RZ (t)	Bl:16-22,24,25,28-32/Nr:0/Pb			•	•		•		
Farinas RZ	Bl:16-26,28-30,32/Nr:0			•	•		•		
Faunas RZ	Bl:16-32/Nr:0/Pb	LMV:1		•	•		•		
Gitanas RZ	Bl:16,21,23,32/Nr:0			•			•	•	NCT
Gustinas RZ	Bl:16-32/Nr:0			•	•	•	•		
Ikebanas RZ	Bl:16-32/Nr:0/Pb			•	•	•	•		
Islandia RZ	Bl:16,21,23,32/Nr:0				•				
Jasperinas RZ	Bl:16-32/Nr:0/Pb			•	•		•		
Kenia RZ	Bl:16,21,23,32			•	•	•	•		
Lasiette RZ	Bl:16-26,28,31,32/Pb			•				•	
Lorquinas RZ	Bl:16-32/Nr:0			•			•		
Madras RZ	Bl:17,22,27,30,31	LMV:1					•	•	
Mirette RZ	Bl:16-22,24-26,28,31,32/Pb	LMV:1		•	•				
Nomugi RZ	Fol:1		•	•	•	•	•		
Patagonia RZ	Bl:16,21,23,32			•	•		•	•	
Paulonas RZ	Bl:16-32/Nr:0			•			•	•	
Pirenea RZ	Bl:16-23,25-27,29,32			•				•	
Platinas RZ	Bl:16-23,25,31,32/Nr:0/Pb		•	•	•	•	•		

(t) For trial purposes only; not for commercial exploitation



Variety	Hr	lr	Hydroponic	Open field	Spring	Summer	Autumn	Winter	Product line / Label
Salmarinas RZ	Bl:16-32/Nr:0/Pb			•	•		•		
Santarinas RZ	Bl:16-26,28,31,32/Nr:0/Pb			•		•			NCT
Siberinas RZ	Bl:16-26,28,31,32/Nr:0/Pb			•				•	NCT
Silvinas RZ	Bl:16-26,28,31,32/Nr:0/Pb			•	•		•		NCT
Sumarnas RZ	Bl:16-32/Nr:0			•	•				
Toscanas RZ	Bl:16-23,25,31,32/Nr:0/Pb			•	•	•	•		NCT
Trianas RZ	Bl:16-32/Nr:0/Pb	LMV:1		•	•	•	•		
Umbrinas RZ	Bl:16-31/Nr:0			•	•	•	•		



Leaf crops

Leaf Lettuce



Variety	Hr	Ir	Protected	Hydroponic	Open field	Spring	Summer	Autumn	Winter	Product line / Label
Lollo Rossa										
Amandine RZ	Bl:16,21,23,32/Fol:1			•		•	•	•	•	
Anthony RZ	Bl:16,21,23,32/Fol:1			•	•	•	•	•	•	
Antoniet RZ	Bl:16-32/Nr:0				•	•	•	•	•	
Carmesi RZ	Bl:16-28,30-32/Fol:1/Nr:0			•	•	•	•	•	•	
Carmoli RZ	Bl:16-23,25,31,32/Nr:0			•		•	•	•	•	
Cavernet RZ	Bl:16-28,30-32/Nr:0			•	•	•	•	•	•	
Gencibel RZ	Bl:16-32/Nr:0			•	•	•	•	•	•	
Concorde RZ	Bl:16,21,23,32			•	•	•	•	•	•	
Connect RZ	Bl:16-32/Nr:0				•	•		•	•	
Corentine RZ	Bl:16-32		•	•		•	•	•	•	
Nation RZ	Bl:16-20,22-24,27,28,30-32/Nr:0/Pb				•	•	•	•	•	
Orville RZ	Bl:16-32/Nr:0				•	•	•	•	•	
Satine RZ	Bl:16-28,30-32/Nr:0		•	•		•		•	•	
Wilbur RZ	Bl:16-32/Nr:0				•	•	•	•	•	





Leaf
Lettuce

Variety	Ir	Protected	Hydroponic	Open field	Spring	Summer	Autumn	Winter	Product line / Label
Lollo Bionda									
Aleppo RZ	Bl:16-27,29,30,32/Nr:0	LMV:1	•	•	•	•	•	•	🌱
Langero RZ	Bl:16-32/Nr:0/Pb	LMV:1		•	•	•	•	•	🌱
Levistro RZ	Bl:16-23,25,31,32/Pb	LMV:1		•	•	•	•	•	🌱
Libeccio RZ	Bl:16-32/Nr:0	LMV:1		•	•	•	•	•	NCT
Licato RZ	Bl:16-28,30-32/Nr:0/Pb	LMV:1		•	•	•	•	•	🌱 NCT
Linaro RZ	Bl:16-30,32/Nr:0	LMV:1	•	•	•	•	•	•	🌱
Livorno RZ	Bl:16,17,21,23,32		•	•				•	🌱
Locarno RZ	Bl:16,21,23,32		•	•	•	•	•	•	🌱
Lozano RZ	Bl:16-32/Nr:0	•	•		•		•	•	🌱 🌱
Lugano RZ	Bl:16,21,23,32	•	•		•	•	•	•	🌱
Mercato RZ	Bl:16-32/Pb	•	•				•	•	NCT



Leaf crops

Salanova®

lettuce



Salanova® is the brand for a range of lettuce. The brand stands for delicious and fresh lettuce which offers extra convenience thanks to the 'One cut, ready' principle resulting in numerous baby-sized leaves. The range consists of various lettuce types like Salanova Butter and Crispy. All of these are available in red and green, and have exceptional additional features such as three to four times more leaves than normal lettuce.

A range of colours, shapes and textures

Many different types of Salanova are already available – including Butter, Lollo, Crispy, Batavia and Oak leaf – ensuring a varied choice of shapes, colours and textures, and the Salanova range is continually expanding. Since Salanova lettuce can be grown indoors as well as outdoors, it is possible to supply it all year round. Our breeders are constantly fine-tuning important traits, including disease resistance, shape, colour and production. They are also working to develop a more upright plant habit to capitalise on the shift towards mechanical harvesting.

Uniform and strong

The 'One cut, ready' principle is a huge advantage for processors. During mechanical harvesting or in the factory, leaves are cut above the core, resulting in uniform, loose leaves immediately ready to be washed and packed. Because of their small size, Salanova leaves are comparable to baby leaves, but they are stronger when mature, have a more pronounced 3D structure and offer a better shelf life plus a higher yield.

www.salanova.com

To promote Salanova and support the consumer, a consumer website has been developed. The Salanova consumer website focuses on the USP's of Salanova, including the 'one cut, ready' technique. The remaining modules guides you to the assortment, retailers, Salanova recipes and other information, like 'In the spotlight', #growyourown and the Salanova Facebook page. The website is available in various languages and still new languages will be added soon.



Variety	Hr	Ir	Protected	Hydroponic	Open field	Spring	Summer	Autumn	Winter	Product line / Label
Green										
Salanova® Aquino RZ	Bl:16-32/Nr:0		•	•	•	•	•	•	•	
Salanova® Descartes RZ	Bl:16-32/Nr:0/Pb		•	•	•	•	•	•		
Salanova® Erasmus RZ	Bl:16-32/Nr:0			•	•	•	•	•		
Salanova® Pascal RZ	Bl:16-32/Nr:0		•	•	•	•	•	•		
Salanova® Sartre RZ	Bl:16-26,28,32		•	•	•	•		•	•	
Green XL										
Salanova® 79-124 RZ (t)	Bl:16-32		•	•		•		•	•	
Salanova® Stetson RZ	Bl:16-32		•	•					•	
Red										
Salanova® Barlach RZ	Bl:16-32/Nr:0		•	•	•	•	•	•	•	
Salanova® Gaugin RZ	Bl:17-22,24-28,30-32		•	•	•	•	•	•	•	
Salanova® Klee RZ	Bl:16-32/Nr:0		•	•	•	•	•	•	•	
Salanova® Renoir RZ	Bl:16-26,28,32		•	•	•	•	•	•	•	
Salanova® Seurat RZ	Bl:16-32/Nr:0				•	•	•	•	•	

(t) For trial purposes only; not for commercial exploitation



Leaf crops



Crispy

Variety	Hr	Ir	Protected	hydroponic	Open field	Spring	Summer	Autumn	Winter	Product line / Label
Green										
Salanova® 79-36 RZ (t)	Bl:16-32/Nr:0	LMV:1	•	•	•	•	•	•	•	
Salanova® Anguilla RZ (t)	Bl:16-32/Nr:0		•	•		•		•	•	
Salanova® Exact RZ	Bl:16-28,30-32	LMV:1	•	•	•	•	•	•	•	
Salanova® Excite RZ	Bl:16-30,32/Nr:0	LMV:1	•		•	•	•	•	•	
Salanova® Exfiles RZ	Bl:16-32/Nr:0	LMV:1			•	•	•	•	•	
Salanova® Expedition RZ	Bl:16-28,30-32/Nr:0	LMV:1	•		•	•	•	•	•	
Salanova® Experience RZ	Bl:16-32/Nr:0	LMV:1			•	•	•	•	•	
Salanova® Expertise RZ	Bl:16-32/Nr:0/Pb	LMV:1	•	•	•	•	•	•	•	
Salanova® Explore RZ	Bl:16-28,30-32/Nr:0	LMV:1			•	•	•	•	•	
Salanova® Exponent RZ	Bl:16-32/Nr:0	LMV:1			•	•	•	•	•	
Red										
Salanova® Codex RZ	Bl:16-32/Nr:0	LMV:1	•	•	•	•	•	•	•	
Salanova® Duplex RZ	Bl:16-28,30-32/Nr:0				•	•	•	•	•	
Salanova® Haflex RZ	Bl:16-32/Nr:0				•	•	•	•	•	
Salanova® Telex RZ	Bl:16-32/Nr:0/Pb	LMV:1			•	•	•	•	•	
Salanova® Triplex RZ	Bl:16-30,32/Nr:0			•	•	•	•	•	•	
Salanova® Wintex RZ	Bl:16-30,32/Nr:0			•	•	•	•	•	•	

(t) For trial purposes only; not for commercial exploitation





Lollo

Variety	Hr	Ir	Protected	hydroponic	Open field	Spring	Summer	Autumn	Winter	Product line / Label
Green										
Salanova® 79-06 RZ (t)	Bl:16-32/Nr:0	LMV:1	•	•	•	•	•	•	•	🌱 🌿
Salanova® 79-29 RZ	Bl:16-32/Nr:0		•			•		•	•	🌱 🌿
Salanova® Desirade RZ	Bl:16-30,32/Nr:0		•	•		•		•	•	🌱 🌿
Salanova® Vicinity RZ	Bl:16-30,32/Nr:0	LMV:1			•	•	•	•	•	🌱 🌿
Red										
Salanova® 79-81 RZ	Bl:16-32/Nr:0		•	•		•		•	•	🌱 🌿
Salanova® Bellagon RZ	Bl:16-26,28,31,32/Pb		•	•		•		•	•	🌱 🌿
Salanova® Hexagon RZ	Bl:16-30,32		•	•		•		•	•	🌱 🌿
Salanova® Jadigon RZ	Bl:16-32/Nr:0				•	•	•	•	•	🌱 🌿
Salanova® Polygon RZ	Bl:16-32/Nr:0	LMV:1			•	•	•	•	•	🌱 🌿

(t) For trial purposes only; not for commercial exploitation





Variety	Hr	lr	Protected	Hydroponic	Open field	Spring	Summer	Autumn	Winter	Product line / Label
Green										
Salanova® Cook RZ	Bl:16-31		•	•	•	•	•	•	•	
Salanova® Cousteau RZ	Bl:16-32/Nr:0		•	•	•	•	•	•	•	
Salanova® Humboldt RZ	Bl:16-32/Nr:0	LMV:1	•	•	•	•		•	•	
Red										
Salanova® Stefano RZ	Bl:16-32/Nr:0		•	•	•	•	•	•	•	
Salanova® Xandra RZ	Bl:16-32/Nr:0		•	•	•	•	•	•	•	
Salanova® Xerafin RZ	Bl:16-30,32		•	•	•	•	•	•	•	





Variety	Hr	Ir	Protected	Hydroponic	Open field	Spring	Summer	Autumn	Winter	Product line / Label
Green										
Salanova® Yacht RZ	Bl:16-32/Nr:0	LMV:1	•	•	•	•	•	•	•	
Red										
Salanova® Bobal RZ	Bl:16-32/Nr:0		•	•	•	•	•	•	•	



Leaf crops



Variety	Hr	lr	Product line / Label
Batavia Green			
Gavia RZ	Bl:16-32/Nr:0		
Lomeria RZ	Bl:16-32/Nr:0		NCT
Batavia Red			
Alboreto RZ	Bl:16-32/Nr:0		
Cos Green			
Valdivia RZ	Bl:16-32/Nr:0		
Cos Red			
84-87 RZ	Bl:16-30,32/Nr:0		
Antoria RZ	Bl:16-32/Nr:0		NCT
Leaf Green			
Chapman RZ	Bl:16-32/Nr:0		
Ovia RZ	Bl:16-32/Nr:0		
Leaf Red			
84-14 RZ	Bl:16-32/Nr:0		
Lidivia RZ	Bl:16-32/Nr:0		NCT
Saravia RZ	Bl:16-31/Nr:0/Pb		NCT
Tratovia RZ	Bl:16-32/Nr:0		
Oak leaf Green			
Carlovia RZ	Bl:16-32/Nr:0/Pb		
Tranvia RZ	Bl:16-32/Nr:0	LMV:1	NCT
Oak leaf Red			
Bourdais RZ	Bl:16-32/Nr:0		
Lunavia RZ	Bl:16-26,28-30,32/Nr:0	LMV:1	NCT
Solavia RZ	Bl:16-32/Nr:0		NCT





Corn Salad

Variety	spring	summer	autumn	winter	Product line / Label
Calarasi RZ	•		•	•	NCT
Cirilla RZ	•	•	•		NCT
Dione RZ	•		•	•	
Pulsar RZ	•		•	•	NCT



Leafies

Spinach



Spinach is regarded as a very healthy vegetable due to its high iron, vitamin C, carotenoids, folate and lutein content. Spinach is grown worldwide in the open field and under protection for premium markets. Rijk Zwaan has a leading position in the spinach market.

Wide range

Rijk Zwaan develops varieties for all growing conditions and uses. We offer a wide range of robust varieties with strong mildew resistance and bolting tolerance for industry. For fresh market, we offer a range of types in different shades of green, smoothly and more roughly structured leaves (Savoy) and varieties with a red vein for salad use. Individual varieties differ in growing speed, bolting tolerance and resistances.

Different uses

In North America and Europe, most spinach is grown for industry and freshly harvested as baby leaf. In the Far East, spinach is grown at a wider spacing and the plants are individually harvested with part of the root. These are sold in bunches. Oriental spinach has a more pointed or triangular leaf shape and an erect growing habit. Rijk Zwaan offers an expanding range of varieties in this type.

Clean and healthy

Resistance breeding plays an important part in our spinach breeding. We aim for a reliable crop for growers and a clean and healthy product for consumers. Because spinach is mostly harvested mechanically, uniformity, germination, bolting tolerance and an erect growing habit are importance selection criteria.





Resistance codes

CMV = *Cucumber mosaic cucumovirus*
(Cucumber mosaic)

Pfs = *Peronospora farinosa f.sp. Spinaciae*
(Downy mildew)

Leafies

Baby leaf Spinach



Variety	Hr	lr	Growing speed	Product line / Label
Oriental				
51-150 RZ F1 (t)	Pfs:1-15		early	
Savoy				
Kolibri RZ F1	Pfs:1-9,12-15	Pfs:10,11	mid early	
Kookaburra RZ F1	Pfs:1-13,15		mid early	NCT
Platypus RZ F1	Pfs:1-15		early	NCT
Smooth				
Canary RZ F1	Pfs:1-15		mid early	
Coati RZ F1	Pfs:1-15		early	
Gazelle RZ F1	Pfs:1-13,15		early	NCT
Mandrill RZ F1	Pfs:1-15		mid early	NCT
Meerkat RZ F1	Pfs:1-15		early	NCT
Raccoon RZ F1	Pfs:1-12,14,15		early	NCT
Silverwhale RZ F1	Pfs:1-9,11-15	Pfs:10	mid late	NCT
Wombat RZ F1	Pfs:1-15		mid early	
Woodpecker RZ F1	Pfs:1-15		mid late	NCT
Red Vein				
Red Kitten RZ F1	Pfs:1-13,15		mid early	NCT

(t) For trial purposes only; not for commercial exploitation





Bunched Spinach

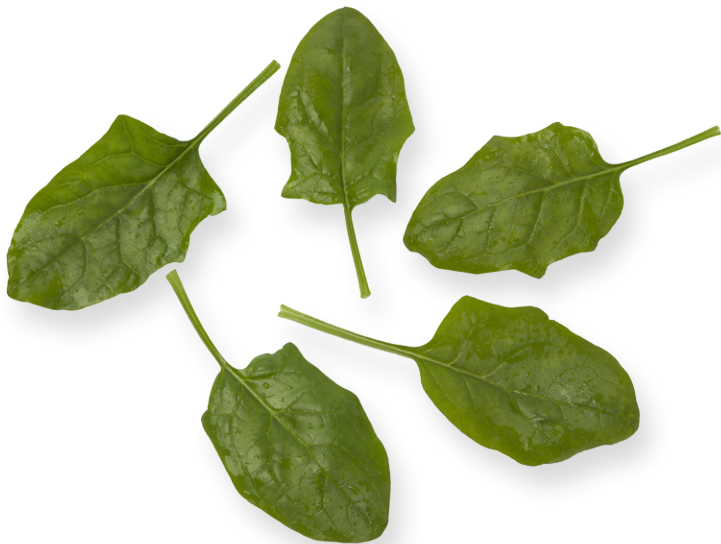
Variety	Hr	Ir	Growing speed	Product line / Label
Oriental				
51-158 RZ F1 (t)	Pfs:1-13,15		mid early	
Darter RZ F1	CMV/Pfs:1-10,15		early	
Egret RZ F1	Pfs:1-11,13,15		mid early	
Harrier RZ F1	CMV/Pfs:1-10,15		mid early	
Hayabusa RZ F1	Pfs:1-11,13,15		early	
Hyena RZ F1	Pfs:1-11,13,15		early	
Manatee RZ F1	Pfs:1-12,14,15		mid early	
Python RZ F1	CMV/Pfs:1-7,9,11,13,15		early	NCT
Tiger RZ F1	CMV/Pfs:1-7,9,11,13,15		mid early	
Smooth				
Racoon RZ F1	Pfs:1-12,14,15		early	NCT

(t) For trial purposes only; not for commercial exploitation





Variety	Hr	lr	Growing speed	Product line / Label
Oriental				
Elephant RZ F1	Pfs:1-7,9,11,13,15		very early	
Kangaroo RZ F1	Pfs:1-7,9,11,13,15		very early	
Smooth				
Beaver RZ F1	Pfs:1-11,13,15		early	
Boa RZ F1	Pfs:1-9,11,13,15		late	NCT
Dolphin RZ F1	CMV/Pfs:1-7,9,11,13,15		early	NCT
Eagle RZ F1	Pfs:1-4,6-8,10,11,15	Pfs:5,9,12-14	mid late	NCT
Gnu RZ F1	Pfs:1-12,14,15		early	
Mouflon RZ F1	Pfs:1-12,14,15		late	NCT
Puma RZ F1	Pfs:1-4,7,11,15	Pfs:5,6,8-10,12-14	late	NCT
Sparrow RZ F1	Pfs:1-11,13,15		mid early	





**Swiss
Chard**

Variety	Product line / Label
Charlie RZ F1	  NCT



Leafies



Variety	Product line / Label
Hybrid	
Geronimo RZ F1	
Kelvin RZ F1	
Stetham RZ F1	
Op	
Artur RZ	
Imperial RZ	NCT
Kylian RZ	NCT





Celeriac

Variety	Product line / Label
Cisko RZ	 
Otago RZ	 
President RZ	 



Others

Fennel



Boelli RZ F1

- Late winter variety, early spring harvest
- Vigorous and rustic variety
- Wide harvest window
- Straight and aligned "Reeds" for easy packing and nice presentation
- Strong against post-harvest oxidation
- Authentic, aromatic flavour



Fennel

After careful selection Rijk Zwaan is pleased to announce the introduction of its first hybrid fennel variety.

Fennel is a typical Italian crop grown all over Italy. New introductions need to meet high standards in adaptability, productivity and quality for growers and consumers.

We will soon introduce additional varieties to further complete our range.



Leek

Variety	Product line / Label
Matejko RZ F1	NCT
Matisse RZ F1	



Others



**Pole
Slicing
Bean**

Variety	Type	Colour	Protected	Open field	Spring	Summer	Autumn	Winter	Product line / Label
Faiza RZ	Flat climbing	Dark Green	•				•	•	
Fascine RZ	Flat climbing	Green	•		•		•		
Festival RZ	Flat climbing	Green	•	•	•	•	•		NCT





Variety	Open field	Protected	Spring	Summer	Autumn	Winter	Product line / Label
French Breakfast							
Junon RZ F1	•	•	•	•	•		
Round Red							
Irene RZ F1		•			•	•	
Mondial RZ F1	•	•	•	•	•		NCT
Valerie RZ F1	•	•	•		•		NCT



Others



Safe use treated seed

Advice safe use treated seed

With the use of treated seed you must observe precautions for your own safety and the protection of the environment. On this page you find more information about these precautions.

For information in your own language, see *Treated Seed Safe Use Advice (pdf, 1,0 MB)* or *Informatie in het Nederlands*.

In general

Do not use treated seed for human or animal consumption or for processing. Keep out of reach of children, livestock and wildlife. Handle seed packages carefully. Avoid contact with skin and respiratory tract and wear suitable protective equipment during seed handling and equipment cleaning. Wash hands and exposed skin before meals and after work. Remove any seed spillages. Keep treated seed away from surface water.

Before sowing

When opening seed bags and during, filling or emptying of the drilling machine, avoid dust exposure. Avoid transfer of dust from the seed bag into the sowing machine. Do not treat the previously treated seed with additional products.

At sowing outdoors

When using a pneumatic drilling machine, dust from treated seed should be directed to the soil surface or into the soil through deflectors. Sow at the recommended seeding rate. To protect birds and mammals, treated seed must be covered by soil, also at row ends.

After sowing

Do not leave empty bags or left-over treated seed in the environment. Dispose of them according to local legislation. Ensure that left over treated seed is returned to their original bags and do not use empty seed bags for other purposes.

Precaution icons



Do not use for human or animal consumption



Wash hands



Keep out of reach of children, livestock and wildlife



Do not contaminate surface water or ditches



Wear suitable protective equipment



Minimize dust generated at drilling

These precautions are prepared by the European Seed Associationn, www.euroseeds.org



Seed count

Crop	Thousand Seeds Weight (gram)	Thousand Pills Weight (gram)
Beetroot	7 - 12	
Broccoli	3 - 5	
Carrot	1 - 1,5	
Cauliflower	3 - 5	
Celeriac	0,3 - 0,6	10
Celery	0,3 - 0,6	
Corn salad	2,3 - 2,7	
Cucumber	20 - 30	
Eggplant	4 - 6	
Endive	1,4 - 1,8	35 - 42
Fennel	5 - 8	
Gherkin	20 - 30	
Hot pepper	7 - 9	
Kohlrabi	3 - 5	
Leek	2,5 - 4,0	
Lettuce	0,8 - 1,5	35 - 45
Melon	25 - 33	
Parsley	1 - 2	
Pole slicing beans	400 - 600	
Radish	8 - 11	
Red Cabbage	3 - 5	
Rootstock cucurbitaceae		
- Cucumis Melo	20 - 30	
- Cucumis Sativus	20 - 30	
- Cucurbita Maxima	150 - 250	
- Lagenaria Siceraria	100 - 160	
Rootstock solanaceae	1,4 - 2,2	20 - 25
Savoy cabbage	3 - 5	
Spinach	8 - 17	
Sweet pepper	6 - 9	
Swiss chard	7 - 12	
Tomato	2,5 - 4	
Watermelon	50 - 55	
White cabbage	3 - 5	

The weight is an estimation and depends on the harvest and on the grading of the seed.

General terms and conditions

General terms and conditions are applicable to each order and sale of Rijk Zwaan and its affiliated companies. You can find these terms and conditions via www.rijkszwaan.com and we will send these terms and conditions to you upon your request.



Marketing and

- Rijk Zwaan is active in breeding, production and sales of vegetable seeds for professional growers worldwide. Rijk Zwaan makes a continuous effort to fulfil the wishes of its customers and other parties concerned.
- Rijk Zwaan complies – at least – with the statutory requirements arising from legislation regarding the marketing and sales of standard seed of vegetable crops.
- Rijk Zwaan is responsible for the quality of its seeds and checks the quality continuously in an extensive

testing programme in the field and in various laboratories. The quality testing programme is audited by the official Netherlands Inspection Service for Horticulture, Naktuinbouw.

- In order to supply top quality seeds and the best service, Rijk Zwaan works in accordance with a quality management system to control and improve the quality of all activities and processes from breeding to sales. This system is comparable, with regard to topics and structure, to internationally generally well known quality management systems in this field and is audited internally on a regular basis.

Rijk Zwaan is furthermore accredited according to the following standards:

- NAL (Naktuinbouw Accredited Laboratory): Rijk Zwaan is accredited by Naktuinbouw to perform specific tests, such as germination tests, physical seed purity tests, and specific tests on (seed born) diseases.
- GSPP (Good Seed & Plant Practices): a standard that aims to prevent tomato and tomato rootstock seeds and plant lots from being infected by *Clavibacter michiganensis* subsp. *Michiganensis* (Cmm). On the packaging of the seeds is mentioned if the seeds are produced under GSPP conditions.



Sales Statement Rijk Zwaan

- Rijk Zwaan is accredited by various inspection bodies, to produce and sell organically produced seeds under the quality label for organic products of the respective countries.

All quality systems mentioned above are audited on a regular basis. Furthermore all our seedlots can be traced throughout the entire process, from production to sales.

- All varieties in Rijk Zwaan's present range are obtained without making use of genetic modification techniques which lead to genetically modified organisms (GMOs) to which Directive 2001/18 of the European Parliament and of the Council of the European Communities of 12 March 2001 on the deliberate release into the environment of GMOs applies. The foregoing applies to Rijk Zwaan

varieties which have been or will be marketed in the year 2015.

- Rijk Zwaan considers the risk of any GMOs being present in the propagating material of its varieties very small. When developing the propagating material of Rijk Zwaan varieties the greatest possible care is exercised based on existing legal requirements relating to the marketing of varieties. Moreover, the methods used in the development and production of this propagating material include procedures to prevent the presence of GMOs.
- Much of Rijk Zwaan's research is focused on resistances. The resistance coding applied by Rijk Zwaan is based on guidelines for resistance coding that are developed by the International Seed Federation. It is important, in general to stress that the specificity of

pests or pathogens may vary over time and space, depends on environmental factors, and that new pest biotypes or pathogen races capable of overcoming resistance may emerge. The Rijk Zwaan resistance codes and the Rijk Zwaan resistance statement are available on the website www.rijkszwaan.com.

- Seed treatment is only applied by Rijk Zwaan in case it considers this the most effective method to control a possible disease and/or pest, and/or to realize a reduction in crop spraying; Rijk Zwaan acts hereby in conformity with the applicable statutory regulations.
- Further information on Rijk Zwaan and its varieties is available in our catalogues, pricelists, leaflets and on the website www.rijkszwaan.com.

January 2015



ESA product specifications for vegetable

These product specifications for germination of precision seeds, varietal purity of precision seeds and seed health requirements are based upon ESA recommended standards.

These product specifications are not meant to be absolute minimum standards for delivery. If the quality tests of Rijk Zwaan indicate a lower quality-level than given in these specifications, Rijk Zwaan will inform prospective seed users. This communication is aimed at informing professional seed users about the quality they can expect, so they can make their own assessment and decide if these seeds meet their requirements.

ESA vegetable seed product specifications

Vegetable growing has become a highly specialized and intensive activity. As a result of the ever increasing demand for better quality, vegetable growers and plant raisers require an improved quality of the basic material.

The demand for specific seed forms and more information about seed quality has strongly increased to better influence emergence and required number of plants.

Seed is a natural product. The often varying environmental conditions thus influence final results. It is therefore often not possible to give detailed information about emergence and other physical seed characteristics. To meet the wishes of clients as much as possible Rijk Zwaan has made up quality standards for the various seed categories.

The germination percentages mentioned are Rijk Zwaan minimum required figures and made up according to ISTA methods and tolerances.

General definitions

Normal Seed

In general, normal seed has not been subjected to special processes. It is sold by weight and/or by count, depending on the product. Normal seed complies with EC standards.

Precision Seed

Precision seed has been subjected to additional processes. It has a uniform size and high germination. Precision seed is sold by count.

Priming

Priming is defined as an activation of the germination process with the purpose to obtain faster or more uniform emergence after sowing. Primed seed is sold by count.

Pelleting

Pelleting is defined as the process of changing the seed form by covering it with a material, the main purpose being to improve uniformity of size and shape resulting in improved sowing ability. Also additional ingredients may be added. Pelleted seed is sold by count.

Film coating

Film coating is a full covering, usually pigmented layer, around the seed. The original seed form remains intact. Additional ingredients may be added. Film coating treatments that contain insecticides are normally identifiable by colour coding. Film coated seed is sold by count.

Glue coating

Glue coating is a process which fixes the applied crop protection products in an almost dust free manner to the seed. A pigment may be added.

Germination

Germination figures relate to ISTA procedures and are valid at the time of despatch.

Varietal purity

Varietal purity rate is defined as: the percentage of plants from a seed lot that meets the variety description.

ESA recommendation on seed health requirements

In order to supply sufficiently healthy vegetable seeds and in order to meet the requirements of EU Council Directive 2002/55/EC, Rijk Zwaan uses various disease risk management strategies to prevent and control seed transmitted diseases. These may include and are not limited to seed health testing programs, protected seed production, field inspections, seed treatments and other effective seed disinfection methods.

ISHI-VEG has developed the Manual of Seed Health Testing Methods, which includes state of the art seed health testing protocols. Rijk Zwaan follows the ISHI-VEG recommended minimum sizes of a representative sample for seed health testing.

Information regarding the ISHI-VEG seed health test protocols and recommended minimum sample sizes can be found at: http://www.worldseed.org/isf/ishi_vegetable.html

precision seeds

ESA product specifications for varietal purity of precision seeds

Crop	Minimum % varietal purity for precision seeds
Brassica	93
Cucumber indoor	99
Cucumber outdoor	(excluding pollinators) 98
Cucumber indoor pickling	(excluding pollinators) 98
Cucumber outdoor pickling	(excluding pollinators) 98
Eggplant	98
Lettuce (Butter head, Batavia, Iceberg, Cos)	98
Lettuce (other types)	95
Melon	98
Watermelon	98
Pepper	97
Squash	97
Tomato fresh	98



ESA product specifications of precision seed and pellets

Crop	Precision seed	Pellets
Brassica		
germination	90%	
seed size gradation	0,20/0,25 mm	
Climbing Bean		
germination	95%	
Beetroot (monogerm)		
germination	80%	
Beetroot (multigerm)		
germination	90%	
seed size gradation	0,50 mm	
Carrot		
germination	85%	
seed size gradation	0,20/0,25 mm	
Celery/Celeriac		
germination	90%	90%
Chicory Witloof		
germination	85%	85%
seed size gradation	0,20/0,25 mm	
Corn Salad		
germination	85%	
seed size gradation	0,20/0,25 mm	
Cucumber		
indoor, germination	92%	
outdoor, germination	92%	
indoor pickling, germination	92%	
outdoor pickling, germination	88%	
Eggplant		
germination	90%	
Endive		
germination	90%	92%
Fennel		
germination	90%	90%
seed size gradation	0,20/0,50 mm	

Crop	Precision seed	Pellets
Leek		
OP germination	90%	90%
F1 germination	85%	85%
seed size gradation	0,20/0,25 mm	
Lettuce		
Butter head, Batavia, Iceberg, Cos		
germination	93%	95%
other types		
germination	93%	95%
Melon		
Charentais type		
germination	95%	
Other types		
germination	90%	
Parsley		
germination	87%	
seed size gradation	0,20/0,25 mm	
Radish		
germination	92%	
seed size gradation	0,20/0,25 mm	
Spinach		
germination	85%	
seed size gradation	0,75 mm	
Sweet/Hot pepper		
germination	90%	
Squash		
germination	92%	
Tomato		
germination	92%	
Watermelon		
normal type		
germination	90%	
seedless type		
germination	85%	



ISF resistance

Definition of the Terms describing the Reaction of Plants to Pests and Abiotic Stresses for the Vegetable Seed Industry (Adopted by the ISF Vegetable and Ornamental Crops Section in June 2012)

1. Introduction

The relationship between a plant and a pest is very complex. The terms that describe the reaction of a plant variety to a pest are determined by tests under controlled environmental conditions with known and characterized biotypes, pathotypes, races or strains of the pest in question.

In practice however, the ability of a pest to cause disease in a plant depends on environmental conditions, the properties of the organism itself and the capacity of the plant to defend itself. Varieties within a plant species can differ in their ability to defend themselves. Under different conditions, such as age of the plant, pest pressure and virulence or adverse environmental conditions, the interaction between the same plant and pest may have different outcomes. Pests are known to develop and form new biotypes, pathotypes, races or strains that can cause damage to plants that remain unaffected by the original form of the pest.

To promote consistency in the terms used to describe the reaction of a plant to a pest, ISF Vegetable and Ornamental Crops Section has defined the following terms.

2. Definitions

Susceptibility is the inability of a plant variety to restrict the growth and development of a specified pest.

Resistance is the ability of a plant variety to restrict the growth and development of a specified pest and/or the damage they cause when compared to susceptible plant varieties under similar environmental conditions and pest pressure. Resistant varieties may exhibit some disease symptoms or damage under heavy pest pressure. Two levels of resistance are defined.



definitions

- **High resistance (HR*)**: plant varieties that highly restrict the growth and development of the specified pest under normal pest pressure when compared to susceptible varieties. These plant varieties may, however, exhibit some symptoms or damage under heavy pest pressure.

- **Intermediate resistance (IR*)**: plant varieties that restrict the growth and development of the specified pest but may exhibit a greater range of symptoms or damage compared to high resistant varieties. Intermediately resistant plant varieties will still show less severe symptoms or damage than susceptible plant varieties when grown under similar environmental conditions and/or pest pressure.

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*.

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. New biotypes, pathotypes, races or strains that may emerge are not covered by the original resistance claim.

- **Immunity**: is when a plant is not subject to attack or infection by a specified pest.

IBEB explanatory note

Physiological races Bl:1-15 of *Bremia lactucae* (downy mildew) in lettuce are to the best of our knowledge no longer observed in practice in Europe nowadays. Therefore reference to the races Bl:1-15 is no longer made in resistance claims with regard to *Bremia lactucae*. From September 1st 2014 onwards, the resistance claim of a variety refers only to Bl:16-32.

* FAO defines a pest as: Any species, strain or biotype of plant, animal or pathogenic agent injurious to plants or plant products. Pathogens (microorganisms such as bacteria, viruses and fungi that cause a disease) are, therefore, included in the term "pest".



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