

Cucumber

Assortment 2017 - 2018



High-tech

Sharing a healthy future





Dear customer,

We are pleased to present to you the new international cucumber booklet – a handy overview of our varieties for heated, high-tech cucumber cultivation.

With Rijk Zwaan's wide range it is possible to grow cucumbers with an excellent yield and quality year-round. This booklet provides a brief overview of the main traits of each variety, including the optimum planting periods, resistances and crop and fruit types. Alongside our wide range of long cucumbers, attention is also given to the smaller segments and rootstocks.

As the market leader in cucumbers, we continue to strive to be front runner in product development. We not only aim for the highest yields and best quality, we also work on new types and unique traits. Good examples are the worldwide successful growing of our snack cucumber range and BonDefense, the label for our cucumber varieties with resistance to cucumber green mottle mosaic virus.

Also special attention this year for diversification. We give you examples of different consumption possibilities in cucumber. Nice examples in this booklet are: the small cavity cucumber, the Asian wok cucumber and the One bite snack cucumber.

Beside our leading spring - summer varieties Verdon RZ, Winmar RZ and Cervello RZ are getting a stronger position in the North American winter - early spring market. The Midi cucumber Mewa RZ is now for several years the standard in high wire cultivations in Eastern Europe.

Should you have any questions relating to this booklet you can always contact your local crop advisor. We wish you a successful crop and a rich harvest.

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Rijk Zwaan

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Legend icons / logos

(t)	For trial purposes only; not for commercial use of the variety
	High resistance
	Intermediate resistance
	Non-chemically treated
	Product line Convenience
	Product line Industry
	Product line Organic
	Product line Sensational Flavours
	Product line Sensational Snacks
	blueleaf label; varieties with this trait look healthier due to the dark-green colour
	Bon Defense label; varieties resistant against Cucumber Green Mottle Mosaic Virus

Long cucumbers

Galibier RZ

Planting period	1/12 - 31/1
Resistance	HR Cca/Ccu IR Px (ex Sf)
Fruit size	large
Crop type	well balanced
Comments	early winter variety
Market information	high fruit weight from start till end of the crop
USP's	doing well under low light conditions

Lohengrin RZ

Planting period	1/12 – 1/2
Resistance	HR Cca/Ccu/Px (ex Sf) IR CVYV
Fruit size	large
Crop type	good vigour and fruit setting
Comments	doing well in high wire and artificial light crops
Market information	good quality
USP's	for high wire artificial light crops

Oberto RZ

Planting period	1/12 - 1/2
Resistance	HR Cca/Ccu/Px (ex Sf)
Fruit size	medium and large
Crop type	strong vigour, good fruit setting
Comments	doing well in high wire and artificial light crops
Market information	good quality
USP's	for high wire artificial light crops

Travatore RZ

Planting period	1/12 - 1/2
Resistance	HR CGMMV/Cca/Ccu IR CVYV/Px (ex Sf)
Fruit size	medium
Crop type	good vigour and fruit setting
Comments	doing well in high wire and artificial light crops
Market information	good quality
USP's	strong against CGMMV, artificial light high wire variety

Long cucumbers

Micah RZ

Planting period	1/12 - 15/2
Resistance	HR Cca/Ccu IR Px (ex Sf)
Fruit size	large and extra large
Crop type	open and generative
Comments	high fruit weight early until the end of the crop
Market information	retains its quality well until the very end
USP's	doing well under low light conditions

Winmar RZ

Planting period	1/12 - 31/1
Resistance	HR Cca/Ccu IR Px (ex Sf)
Fruit size	large
Crop type	open, labour friendly
Comments	early variety with endurance, high fruit weight early until the end of the crop
Market information	retains its quality well until the very end
USP's	real winter variety, fruit quality and fruit weight

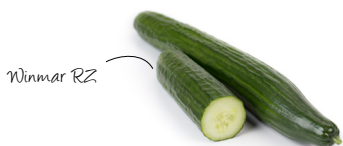
Proloog RZ



Planting period	1/1 - 20/8
Resistance	HR Ccu IR Px (ex Sf)
Fruit size	medium
Crop type	open and labour-friendly
Comments	standard variety in NW Europe
Market information	good quality, standard in the market
USP's	good stamina and strong against Mycosphaerella

24-242 RZ ^(t)

Planting period	1/1 - 20/8
Resistance	HR Cca/Ccu IR CVV/Px (ex Sf)
Fruit size	medium
Crop type	strong grower and sufficiently generative
Comments	Proloog type with a bit longer fruits and more vigour
Market information	good quality
USP's	good stamina, labour friendly



Long cucumbers

24-243 RZ ^(t)



Planting period	1/1 - 20/8
Resistance	HR CGMMV/Cca/Ccu IR CVYV/Px (ex Sf)
Fruit size	medium
Crop type	more vigorous Proloog-type
Comments	newest CGMMV-HR variety for NW Europe
Market information	good quality
USP's	strong against CGMMV

Cervello RZ

Planting period	1/1 - 20/8
Resistance	HR Cca/Ccu IR CVYV/Px (ex Sf)
Fruit size	large
Crop type	open and labour friendly
Comments	good stamina
Market information	good quality
USP's	strong against CGMMV

Carambole RZ



Planting period	10/1 - 20/2
Resistance	HR Cca/Ccu
Fruit size	medium
Crop type	good vigour and generative
Comments	also ideal for high-wire crops
Market information	good quality
USP's	great pieces producer and good stamina

Euphoria RZ

Planting period	20/1 - 20/8
Resistance	HR Cca/Ccu
Fruit size	medium and large
Crop type	open and labour-friendly
Comments	reliable in yield and quality
Market information	good quality
USP's	endurance and open plant type

Verdon RZ



Planting period	1/2 - 20/8
Resistance	HR CGMMV/Cca/Ccu/Px (ex Sf) IR CMV/CVYV
Fruit size	large
Crop type	strong and healthy, fairly open plants
Comments	good balance between vigour and fruit load
Market information	standard in the market, good quality
USP's	reliable and high yielding



Bon DEFENSE

Long cucumbers

Boncanale RZ



Planting period	1/2 - 20/8
Resistance	HR CGMMV/Cca/Ccu/Px (ex Sf) IR CMV/CVVY
Fruit size	large and extra large
Crop type	strong, fairly open plants, dark green leaf
Comments	Verdon-type with longer fruits
Market information	extra large fruits, good quality
USP's	fruit length, strong and healthy plant

24-252 RZ ^(t)



Planting period	1/2 - 20/8
Resistance	HR CGMMV/Cca/Ccu/Px (ex Sf) IR CMV/CVVY
Fruit size	large
Crop type	strong, fairly open plants, dark green leaf
Comments	Verdon-type
Market information	good quality
USP's	excellent results in high wire crops, Blueleaf

24-257 RZ ^(t)



Planting period	1/2 - 20/8
Resistance	HR CGMMV/Cca/Ccu/Px (ex Sf) IR CMV/CVVY
Fruit size	large and extra large
Crop type	strong, fairly open plants, dark green leaf
Comments	Verdon-type with a bit longer fruits
Market information	good quality
USP's	very nice balance in umbrella crops, Blueleaf

Durance RZ



Planting period	20/2 - 10/8
Resistance	HR Cca/Ccu/Px (ex Sf) IR CVVY
Fruit size	large
Crop type	good vigour, strong fruit setting
Comments	high wire summer variety for warm conditions
Market information	good quality
USP's	strong against burning heads



Long cucumbers

Addison RZ



Planting period	20/2 - 20/8
Resistance	HR Ccu/Px (ex Sf) IR CGMMV/CMV/CVYV
Fruit size	large
Crop type	somewhat open, generative plants
Comments	doing very well in autumn crops
Market information	good quality
USP's	starts producing very quickly

Bonbon RZ



Planting period	20/2 - 20/8
Resistance	HR CGMMV/Ccu IR CVYV/Px (ex Sf)
Fruit size	medium
Crop type	short-jointed; steady grower
Comments	first BonDefense variety for NW European market
Market information	good quality
USP's	CGMMV HR + Px (ex Sf) IR

Bonnet RZ



Planting period	20/2 - 10/8
Resistance	HR CGMMV/Ccu/Px (ex Sf) IR CVYV
Fruit size	medium
Crop type	short-jointed; steady grower
Comments	Bonbon type with HR: Px (ex Sf)
Market information	good quality
USP's	CGMMV HR + Px (ex Sf) HR

Roxanna RZ

Planting period	20/2 - 20/8
Resistance	HR Cca/Ccu
Fruit size	medium and large
Crop type	short-jointed; smaller leaves
Comments	combines vigour with strong fruit setting; without a doubt the most productive summer variety
Market information	good quality
USP's	yield

Long cucumbers

Diapason RZ



Planting period	1/3 - 10/8
Resistance	HR Cca/Ccu/Px (ex Sf) IR CMV/CVYV
Fruit size	medium and large
Crop type	vigorous, strong growing variety
Comments	doing well under warm and light conditions, strong root system
Market information	good quality
USP's	yield under extreme conditions

Marbon RZ



Planting period	1/3 - 10/8
Resistance	HR CGMMV/Cca/Ccu/PX (ex Sf) IR CMV/CVYV
Fruit size	medium and large
Crop type	vigorous, strong and good fruit setting
Comments	doing well under warm and light conditions
Market information	good quality
USP's	CGMMV HR and strong healthy plant

Peloton RZ

Planting period	1/3 - 10/8
Resistance	HR Cca/Ccu IR CVYV/PX (ex Sf)
Fruit size	medium
Crop type	quite strong and generative
Comments	especially for SE Europe
Market information	good quality
USP's	

Stelvio RZ

Planting period	1/3 - 10/8
Resistance	HR Cca/Ccu/Px (ex Sf)
Fruit size	medium and large
Crop type	open and labour friendly
Comments	Proloog type with HR: Px (ex Sf)
Market information	good quality
USP's	well balanced healthy plant

Long cucumbers

Laureen RZ

Planting period	1/3 - 20/8
Resistance	HR Cca/Ccu IR CVYV
Fruit size	small and medium
Crop type	small-leaved and labour-friendly
Comments	real unit producer
Market information	grades mainly 350 and 400 g, good quality
USP's	yield in pieces

Lausanna RZ

Planting period	1/3 - 20/8
Resistance	HR Cca/Ccu IR CVYV
Fruit size	medium
Crop type	small-leaved and labour-friendly, good vigour
Comments	well balanced variety and good endurance
Market information	grades mainly 400 g, very good quality
USP's	reliable and quality until the end of the crop

Bonaire RZ



Planting period	1/3 - 20/8
Resistance	HR CGMMV/Cca/Ccu IR CVYV
Fruit size	medium and large
Crop type	short internodes and small leaves
Comments	good vigour and excellent fruit setting
Market information	good quality
USP's	

Bonifacio RZ



Planting period	1/3 - 20/8
Resistance	HR CGMMV/Cca/Ccu IR CVYV
Fruit size	medium
Crop type	short internodes and small leaves
Comments	good vigour and excellent fruit setting
Market information	grades mainly 350 and 400 g, good quality
USP's	CGMMV HR and yield



Long cucumbers

24-250 RZ ^(t)



Planting period	1/3 - 7/9
Resistance	HR Ccu IR CVVY
Fruit size	medium and large
Crop type	vigorous
Comments	only trial seeds available
Market information	excellent for processing and sandwiches
USP's	small cavity, high dry matter content

Cadence RZ



Planting period	20/3 - 10/8
Resistance	HR Cca/Ccu/Px (ex Sf)
Fruit size	medium and large
Crop type	vigorous plant and sufficiently generative
Comments	suitable as a soil-grown crop and for organic cultivation
Market information	good quality
USP's	good stamina

Stockeu RZ

Planting period	20/3 - 10/8
Resistance	HR Ccu/Px (ex Sf)
Fruit size	medium
Crop type	small leaf variety and sufficiently generative
Comments	labour friendly because of open crop, for substrate and soil crops
Market information	good quality
USP's	well balanced plant

24-248 RZ



Planting period	20/3 - 10/8
Resistance	HR Cca/Ccu/Px (ex Sf) IR CVVY
Fruit size	medium and large
Crop type	vigorous plant and sufficiently generative
Comments	suitable as a soil-grown crop and substrate crop
Market information	good quality
USP's	high yielding, Px(ex Sf) HR variety

24-250 RZ is our first cucumber variety with a smaller cavity and higher dry matter. Now available for trialling!



Small-cavity cucumber

for your convenience





we will
wok you

Russian cucumbers

Gerakl RZ

Planting period	1/1 - 1/8, in the Southern Russian regions planting from 1 January is possible
Resistance	HR Ccu IR CMV/CVYV/Px (ex Sf)
Fruit size	18 - 20 cm, short neck, dark green spined
Crop type	very open generative plant type with dark green leaves
Comments	advice: keep the head of the main stem in, coil it up over the wire towards the next plant and take the head out 60 cm under the wire
Market information	good quality Russian cucumber
USP's	labour friendly

Svyatogor RZ

Planting period	20/12 - 1/3
Resistance	HR Ccu IR CVYV/Px (ex Sf)
Fruit size	18-20 cm, high quality and good shelf life
Crop type	well balanced
Comments	also recommended for artificial light crops
Market information	good quality
USP's	first high quality Asian cucumber for hightech

Asian cucumbers

27-103 RZ ^(t)

Planting period	1/1 - 1/8
Resistance	HR Ccu/Px (ex Sf)
Fruit size	29 - 32 cm
Crop type	vigorous
Comments	first Asian cucumber for high tech greenhouses
Market information	perfect variety for stir-frying
USP's	high dry matter content



Introducing a new cucumber variety that is ideal for use in the wok, bringing a taste of modern Asian cuisine to the Western world. Now available for trialling!

Midi cucumbers

Mewa RZ

Planting period	1/1 - 1/3
Resistance	HR Cca/Ccu IR CVYV/Px (ex Sf)
Fruit size	20 - 22 cm, dark ribbed
Crop type	single fruited variety with strong vigour
Comments	nice fruit setting, doing well under artificial light and high wire because of vigour not suitable for planting later in season
Market information	good quality, main variety in early high wire Russian crops
USP's	vigour and good fruit setting, yield

Media RZ

Planting period	1/1 - 20/8
Resistance	HR Cca/Ccu IR CMV/CVYV/Px (ex Sf)
Fruit size	18 - 22 cm, dark ribbed
Crop type	open plant structure with average growth
Comments	nice ribs and fruit colour, good flavour and shelf life
Market information	good quality
USP's	reliable

Yani RZ

Planting period	1/1 - 20/8
Resistance	HR Ccu IR CMV/CVYV
Fruit size	18 - 20 cm, dark ribbed
Crop type	open plants with fairly strong growth
Comments	slightly lower fruit weight than that of Media
Market information	good quality
USP's	good flavour and shelf life

Meleas RZ

Planting period	1/1 - 1/9
Resistance	HR Cca/Ccu IR CMV/CVYV/Px (ex Sf)
Fruit size	18 - 22 cm
Crop type	open plant type with short rank growth
Comments	suitable for Poland and other areas in addition to Media
Market information	good quality
USP's	reliable

Mini cucumbers

Picowell RZ

NCT

Planting period	1/12 - 20/8
Resistance	HR Ccu IR Px (ex Sf)
Fruit size	approx. 15 cm
Crop type	open, generative and sufficiently vigorous
Comments	nice dark colour, suitable for use as an early crop and with assimilation lighting
Market information	good quality, good shelf life
USP's	standard variety in high tech world wide

Bonwell RZ

NCT

Planting period	1/12 - 20/8
Resistance	HR CGMMV/Ccu IR CMV/CVYV/Px (ex Sf)
Fruit size	approx. 15 cm
Crop type	open, generative and sufficiently vigorous
Comments	dark green, first BonDefense mini cucumber, very close to Picowell RZ
Market information	good quality, good shelf life
USP's	CGMMV-HR

Oxwell RZ

Planting period	1/3 - 20/8
Resistance	HR Ccu IR CMV/CVYV/Px (ex Sf)
Fruit size	15 cm, approx.
Crop type	generative and multi fruited
Comments	dark green, in high wire crops, needs good management of pruning
Market information	good quality, good shelf life
USP's	high yielding in short period



Snack cucumbers

Qwerty RZ



Planting period	20/12 – 20/8
Resistance	Ccu CMV/CVYV/Px (ex Sf)
Fruit size	8-10 cm, 40 g
Crop type	generative and multi fruited
Comments	dark green, doing well in early plantings, suitable for high wire cropping
Market information	high quality, good shelf life, tasty snack
USP's	quality and taste

Quarto RZ



Planting period	10/1 - 20/8
Resistance	Ccu/Px (ex Sf)
Fruit size	9-11 cm, 40 g
Crop type	strong and open, multi fruited
Comments	smooth and uniform, fresh-green with excellent flavour, suitable for high-wire cropping
Market information	high quality, good shelf life, tasty snack
USP's	quality and taste, PM-HR, standard variety in snack high tech world wide

Quinton RZ



Planting period	10/1 - 20/8
Resistance	Px (ex Sf)
Fruit size	9-11 cm, 40 g
Crop type	double fruited, short internodes
Comments	creamish-white, nicely rounded, slightly ribbed
Market information	perfect snack for mixed packaging, novelty
USP's	white colour

Quirk RZ



Planting period	10/1 - 20/8
Resistance	Px (ex Sf) CMV
Fruit size	5-7 cm, 20-25 g
Crop type	double fruited, short internodes
Comments	creamish-white, nicely rounded, slightly ribbed
Market information	perfect snack for mixed packaging, novelty
USP's	white colour

Quatrino RZ ^(t)



Planting period	20/12 - 20/8
Resistance	Ccu CMV/Px (ex Sf)
Fruit size	5 cm
Crop type	very small dark leaf type
Comments	very high amount of fruits, needs high stem density
Market information	one-bite snack type
USP's	unique product, yield in pieces



Sensational Snacks is the showcase for our most sensational 'snack varieties'. For example **Quarto RZ** is the standard variety in our tasteful snack segment.

Gherkins

Harmonie RZ



Planting period	1/2 - 10/8
Resistance	HR Ccu/Px (ex Sf) IR CMV
Fruit size	10-14 cm, good lenght-girth ratio 3:1
Crop type	generative open crop
Comments	high and early production
Market information	good quality, uniform product
USP's	No. 1 fresh gherkin in high-tech



Rootstocks

Cobalt RZ

Planting period	1/3 - 20/8
Resistance	HR Fom:0,1,2,1.2/For/Va IR Fon:0-2
Type	C. maxima X C. moschata
Traits	vigorous and cold-tolerant for cucumbers in North and South Europe
Comments	for soil-grown crops, early and good total production

Affyne RZ



Planting period	10/1 - 20/8
Resistance	HR Fom:0,1,2,1.2 IR Fon:0-2/For/Va
Type	C. sativus
Traits	less vigorous rootstock than Azman
Comments	for rockwool crops where Fusarium resistance is required; not suitable for soil-grown crops

Planting schedule

Variety	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Galibier RZ												
Lohengrin RZ												
Oberto RZ												
Travatore RZ												
Micah RZ												
Winmar RZ												
Proloog RZ												
24-242 RZ												
24-243 RZ												
Cervello RZ												
Carambole RZ												
Euphoria RZ												
Verdon RZ												
Boncanale RZ												
24-252 RZ												
24-257 RZ												
Durance RZ												
Addison RZ												
Bonbon RZ												
Bonnet RZ												
Roxanna RZ												
Diapason RZ												
Marbon RZ												
Peloton RZ												
Stelvio RZ												
Laureen RZ												
Lausanna RZ												
Bonaire RZ												
Bonifacio RZ												
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Qwerty RZ												
Quarto RZ												
Quinton RZ												
Quirk RZ												
Quatrino RZ												
Harmonie RZ												
Cobalt RZ												
Affyne RZ												

Abbreviations, resistance definitions

Cucumber and Gherkin

Ccu	Cladosporium cucumerinum
Cca	Corynespora cassiicola
CGMMV	Cucumber green mottle mosaic virus
CMV	Cucumber Mosaic virus
CVYV	Cucumber vein yellowing virus
Px (ex Sf)	Podosphaera xanthii (ex Sphaerotheca fuliginea)

Rootstock Cucurbitaceae

Fom	Fusarium oxysporum f. sp. melonis
Fon	Fusarium oxysporum f. sp. Niveum
For	Fusarium oxysporum f. sp. radicis-cucumerinum
Va	Verticillium albo-atrum

Definition of the Terms Describing the Reaction of Plants to Pests ¹ 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.

¹⁾ 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”.

and disclaimer

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.

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.

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The pictures in this catalogue show the types to which the varieties as mentioned belong and not all varieties as such. These pictures do not constitute any warranty, express or implied, of crop performance

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