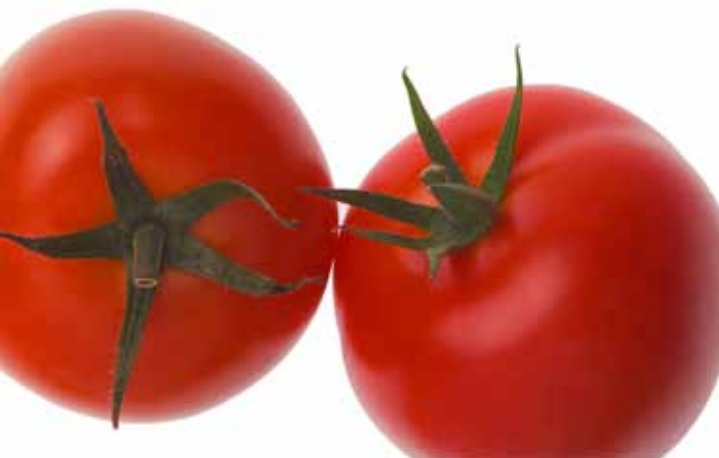




RIJK ZWAAN

# Tomato variety range

SEASON 2010 | 2011





Dear business relation,

This year, too, you receive from us a new tomato booklet – the handy overview of all Rijk Zwaan tomato varieties and rootstocks.

With our constantly expanding range, it is more important than ever to have a clear overview of the possibilities. We introduce a number of new types, and within the traditional segments the choice has increased again. This booklet provides a good insight into, for instance, resistances, crop types, fruit weight and flavour.

We hope it will help you in choosing the best variety for you. Should you have any questions after reading this overview you can, of course, always contact your crop advisor. You are also very welcome at our demo which, in 2010, is still in Steenberg and from the 2011 season onwards will be at our brand new demo nursery in Kwintshoul, where you will be able to assess many varieties in practical conditions.

Rijk Zwaan wishes you a successful crop and a rich harvest.

Crop Team tomatoes  
Rijk Zwaan



**Rijk Zwaan Export B.V.**

P.O. Box 40, 2678 ZG, De Lier

The Netherlands

Tel: +31 (0) 174 53 23 00

Fax: +31 (0) 174 51 82 43

export@rijkszwaan.nl

**Australia**

**Steven Roberts**

Mobile: +61 40 86 13 534

Fax: +61 24 95 93 577

sroberts@rijkszwaan.com.au

**Denmark**

**Harm Ehmen**

Mobile: +45 21 22 68 95

Fax: +46 65 906 504

h.ehmen@rijkszwaan.de

**Canada**

**John DeVries**

Mobile: +1 519 324 6669

Fax: +1 519 790 0069

j.devries@rijkszwaan.com

**Lithuania, Latvia,**

**Estonia**

**Zilvinas Rudys**

Mobile: +370 68 62 06 56

Fax: +370 52 37 53 90

z.rudys@rijkszwaan.de

**Scandinavia**

**Leif Andersson**

Mobile: +46 70 99 94 469

Fax: +46 43 57 18 614

l.andersson@rijkszwaan.de

**United Kingdom**

**Stuart Lambert**

Mobile: +44 788 960 55 08

Fax: +44 175 930 58 48

stuart@rijkszwaan.co.uk

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TSWV	= Tomato spotted wilt virus
ToMV	= Tomato mosaic virus, resistance to strains 0,1,2
TYLCV	= Tomato yellow leaf curl virus
Ff	= <i>Fulvia fulva</i> (ex <i>cladosporium fulvum</i> ) (leaf blotch disease)
Fol:0,1	= <i>Fusarium</i> (wilting disease)
For	= <i>Fusarium</i> (foot rot)
On (ex Ol)	= powdery mildew
Sbl	= <i>Stemphylium botryosum</i> f. sp. <i>lycopersici</i>
Pl	= <i>Pyrenochaeta lycopersici</i> (corky root)
Vd	= <i>Verticillium dahliae</i> , resp. <i>dahliae</i> (wilting disease)
Va	= <i>Verticillium</i> (wilting disease), resp. <i>albo atrum</i> (wilting disease)
Lt	= powdery mildew
Mi	= root knot nematode
Mj	= root knot nematode
Ma	= root knot nematode
HR	= high resistance
IR	= intermediate resistance





*With Santa type 72-151 RZ and mini San Marzano variety 72-154 RZ we are again expanding the specialties we offer. Both varieties are characterised by their excellent flavour and their unusual shape, which enable them to occupy a very distinctive position within the tomato market.*

**72 - 151 RZ**

Segment	Santa type
Resistance	HR: ToMV/Fol:0,1/Sbl
Average fruit weight	15 g
Vigour	generative
Crop type	long crop with an open character

**72 - 154 RZ**

Segment	mini San Marzano
Resistance	HR: ToMV/Ma/Mi/Mj
Average fruit weight	17 g
Vigour	normal
Crop type	generative with downward-hanging leaves

**72 - 149 RZ**

Segment	San Marzano
Resistance	HR: ToMV/Ff:1-5/For/Sbl/Va/Vd/Mi
Average fruit weight	80 - 90 g
Vigour	strongly vegetative
Crop type	dense crop
Comments	strong against silvering





*In the plum-tomatoes segment we have a number of tasty and productive varieties, with weights ranging from 16 to 35 g. Apart from the lovely taste, other strong points are the beautiful, red colour and excellent shape. A new variety is 72-150 RZ; its uniformity makes it stand out even more.*

<b>Tovale RZ</b>	<b>(72-141 RZ)</b>
Segment	plum, truss
Resistance	HR: ToMV/Ff:1-5/Fol:0,1/For/Va/Vd/Ma/Mi/Mj
Average fruit weight	35 g
Vigour	generative
Crop type	long, slightly thin crop; high lycopene content
Comments	strong against silvering

<b>Pareso RZ</b>	<b>(72-126 RZ)</b>
Segment	plum, loose
Resistance	HR: ToMV/Ff:1-5/Fol:0,1/Va/Vd/Ma/Mi/Mj
Average fruit weight	16 g
Vigour	strong crop
Crop type	long crop with long leaves; high lycopene content

<b>72-150 RZ</b>	
Segment	plum, loose
Resistance	HR: ToMV/Fol:0,1/Ma/Mi/Mj
Average fruit weight	10 g
Vigour	generative
Crop type	long crop with an open character





*In the 'cherry, loose' segment, Sassari RZ proves large-scale that it is a reliable variety that catches the eye with its generative crop and the large number of double trusses, making the crop both easy to work in and highly productive. What's more, the tip fruits develop well and the flavour is excellent. Variety 72-148 RZ is a promising newcomer.*

### **Cheramy RZ**

Segment	cherry, loose
Resistance	HR: ToMV/Ff:1-5/Fol:0,1/Va/Vd/Ma/Mi/Mj
Average fruit weight	14 g
Vigour	vegetative
Crop type	long, open crop with a fair number of double trusses; good development of the tip fruits
Comments	strong against silvering

### **Sassari RZ**

Segment	cherry, loose
Resistance	HR: ToMV/Ff:1-5/Fol:0,1/For/Va/Vd/Ma/Mi/Mj
Average fruit weight	16 g
Vigour	strongly generative
Crop type	long crop with a fair number of double trusses

### **72-142 RZ**

Segment	cherry, loose
Resistance	HR: ToMV/Ff:1-5/Fol:0,1/Va/Vd
Average fruit weight	16 g
Vigour	strong
Crop type	robust crop, fair number of double trusses, good development of tip fruits

### **72-148 RZ**

Segment	cherry, loose
Resistance	HR: ToMV/Ff:1-5/Fol:0,1/Va/Vd/Ma/Mi/Mj
Average fruit weight	14 g
Vigour	strongly generative
Crop type	reasonably short crop with adequate number of double trusses



*A good colour, excellent flavour and neat truss structure. Those are the core values of Tastery RZ. The variety is strongly generative and gives nicely developing trusses. Tastery is also strong against split fruits and yellow stems.*

<b>Tastery RZ</b>	
Segment	cherry, truss
Resistance	HR: ToMV/TSWV/TYLCV/Ff:1-5/Fol:0,1/Va/Vd/Ma/Mi/Mj
Average fruit weight	18 - 20 g
Vigour	strongly generative
Crop type	strong, open crop
Comments	well-developing trusses





*The average fruit weight of our cocktail tomatoes ranges from 35 to 55 g. This puts strong grower Pinoso RZ in the 'large' segment. Amoroso RZ, Briosso RZ and Delicioso RZ weigh 35 – 45g. Variety 72-146 RZ is slightly smaller still, further expanding the range. All our cocktail varieties taste delicious and look wonderful.*

<b>Amoroso RZ</b>	
Segment	cocktail
Resistance	HR: ToMV/Ff:1-5/Fol:0,1/For/Va/Vd/Ma/Mi/Mj IR: On (ex OI)
Average fruit weight	35 - 45 g
Vigour	strongly vegetative
Crop type	short, fairly heavy crop with nice, short trusses
Comments	nice, flat trusses, ideal for retail packaging, high lycopene content, strong against silvering

<b>Briosso RZ</b>	
Segment	cocktail
Resistance	HR: ToMV/Ff:1-5/Fol:0,1/For/Va/Vd IR: On (ex OI)
Average fruit weight	35 - 45 g
Vigour	strongly generative with sufficient speed
Crop type	open crop
Comments	flat trusses, fruits are of the greenback type, high lycopene content

<b>Delicioso RZ</b>	
Segment	cocktail
Resistance	HR: ToMV/Ff:1-5/Fol:0,1/For/Va/Vd/Ma/Mi/Mj IR: On (ex OI)
Average fruit weight	35 - 45 g
Vigour	vegetative
Crop type	open crop with level leaf position, high lycopene content

<b>Pinoso RZ</b>	
Segment	cocktail
Resistance	HR: ToMV/Ff:1-5/Fol:0,1/For/Va/Vd/Ma/Mi/Mj IR: On (ex OI)
Average fruit weight	45 - 55 g
Vigour	strong growth with a vegetative character
Crop type	short, fairly heavy crop
Comments	nice trusses, good flavour

**72 - 144 RZ**

Segment	cocktail
Resistance	HR: ToMV/Ff:1-5/Fol:0,1/For/Va/Vd/Ma/Mi/Mj IR: On (ex Ol)
Average fruit weight	45 - 55 g
Vigour	strongly generative
Crop type	fairly heavy crop
Comments	nice, flat trusses, good flavour

**72 - 146 RZ**

Segment	cocktail
Resistance	HR: ToMV/Ff:1-5/Fol:0,1/For/Va/Ma/Mi/Mj IR: On (ex Ol)
Average fruit weight	25 - 35 g
Vigour	generative
Crop type	open crop
Comments	notable for its high level of truss initiation





*The 'medium-size tomatoes' segment is constantly being enriched with new varieties. Besides Arvento RZ and Elanto RZ, which have already more than proved themselves in practice, we offer a few more newcomers again this season. From small to large, there is something for everyone, but they all have one trait in common: they taste superb.*

<b>Arvento RZ</b>	
Segment	intermediate type, loose, medium size
Resistance	HR: ToMV/TSWV/Ff:1-5/Fol:0,1/For/Sbl/Va/Vd IR: On (ex Ol)
Average fruit weight	95 - 105 g
Vigour	vegetative
Crop type	normal length with a nice open crop structure
Comments	trusses with, often, 8 – 9 fruits; strong against silvering

<b>Elanto RZ</b>	
Segment	intermediate type, loose, medium size
Resistance	HR: ToMV/Ff:1-5/Fol:0,1/For/Sbl/Va/Vd IR: On (ex Ol)
Average fruit weight	95 - 105 g
Vigour	strongly generative
Crop type	long crop with an open, generative structure
Comments	excellent flavour, trusses with 8 - 9 fruits, strong against silvering

<b>72-380 RZ</b>	
Segment	intermediate type, loose, medium size
Resistance	HR: ToMV/Ff:1-5/Fol:0,1/For/Sbl/Va/Vd IR: On (ex Ol)
Average fruit weight	95 - 105 g
Vigour	generative, normal
Crop type	long, open crop with normal leaves
Comments	trusses of 8 - 9 fruits with a very good flavour, strong against silvering

<b>72-381 RZ</b>	
Segment	intermediate type, loose, medium size
Resistance	HR: ToMV/Ff:1-5/Fol:0,1/For/Sbl/Va/Vd IR: On (ex Ol)
Average fruit weight	95 - 105 g
Vigour	generative, normal
Crop type	fairly long, open crop with normal leaves
Comments	firm tomatoes with a good shape and colour, strong against silvering

**72-383 RZ**

Segment	intermediate type, loose, medium size
Resistance	HR: ToMV/Ff:1-5/Fol:0,1/For/Va/Vd IR: On (ex OI)
Average fruit weight	95 - 105 g
Vigour	generative, normal
Crop type	normal crop length; robust leaves
Comments	excellent shape and firmness; productive, strong against silvering

**72-384 RZ**

Segment	intermediate type, loose, medium size
Resistance	HR: ToMV/Ff:1-5/Fol:0,1/For/Va/Vd IR: On (ex OI)
Average fruit weight	95 - 100 g
Vigour	generative, strong
Crop type	long, open crop; robust leaves
Comments	productive, strong against silvering

**72-385 RZ**

Segment	intermediate type, loose, medium size
Resistance	HR: ToMV/Ff:1-5/Fol:0,1/For/Sbl/Va/Vd IR: On (ex OI)
Average fruit weight	85 - 90 g
Vigour	vegetative
Crop type	long, robust crop
Comments	nice shape and colour, good flavour, strong against silvering





*Roterno RZ remains a top variety in the smaller-truss segment. The combination of a good flavour and attractive appearance has been the key to its success for many years now. With its early production, newcomer Lyterno RZ is now also breaking through. Not only does the variety have nice, flat trusses and a good flavour, its lycopene content is extra high.*

<b>Roterno RZ</b>	
Segment	truss, small
Resistance	HR: ToMV/TSWV/Ff:1-5/Fol:0,1/For/Va/Vd/Ma/Mi/Mj IR: On (ex Ol)
Average fruit weight	100 g
Vigour	generative
Crop type	normal length, fairly open structure and raised leaf position
Comments	suitable for the UK, high lycopene content, strong against silvering

<b>Lyterno RZ (72-471 RZ)</b>	
Segment	truss, small
Resistance	HR: ToMV/Ff:1-5/Fol:0,1/For/Va/Vd IR: On (ex Ol)
Average fruit weight	110 g
Vigour	generative variety with strong vigour
Crop type	longer, neat and tidy crop
Comments	nice flat trusses, starts producing early, good flavour, high lycopene content, strong against silvering





*The Rijk Zwaan varieties in the 'truss, medium' segment combine flavour with a high production, traits with which top varieties like Mecano RZ and Cappricia RZ have won the trust of many growers, who also like to praise their quality and labour-friendliness. Mauritius RZ and a number of newcomers are getting a lot of attention now as well.*

**Bonaparte RZ**

Segment	truss, medium
Resistance	HR: ToMV/TSWV/Ff:1-5/Fol:0,1/For/Va/Vd
Average fruit weight	120 - 130 g
Vigour	vegetative variety with strong vigour
Crop type	normal length; denser crop with raised leaves
Comments	insusceptible to splitting, strong against silvering

**Cappricia RZ**

Segment	truss, medium
Resistance	HR: ToMV/TSWV/Ff:1-5/Fol:0,1/For/Sbl/Va/Vd
Average fruit weight	120 - 130 g
Vigour	strong, generatively vigorous variety
Crop type	short variety with an open, neat and tidy crop structure
Comments	flat trusses, strong against splitting and silvering

**Cedrico RZ**

Segment	truss, medium
Resistance	HR: ToMV/Ff:1-5/Fol:0,1/For/Sbl/Va/Vd
Average fruit weight	110 - 120 g
Vigour	generative
Crop type	normal length with an open crop structure and nice, level leaf position
Comments	strong against silvering

**Mecano RZ**

Segment	truss, medium
Resistance	HR: ToMV/TSWV/Ff:1-5/Fol:0,1/For/Sbl/Va/Vd
Average fruit weight	110 - 120 g
Vigour	generative
Crop type	short, strong crop with nice, level leaf position
Comments	fruits are insusceptible to splitting, strong against silvering

**Mauritius RZ (72-482 RZ)**

Segment	truss, medium
Resistance	HR: ToMV/Ff:0,2,4/Fol:0,1/For
Average fruit weight	120 - 130 g
Vigour	vegetative, strong
Crop type	long, very robust, open crop structure
Comments	strong green parts and must be grafted in connection with resistances; strong against silvering

**72-490 RZ**

Segment	truss, medium
Resistance	HR: ToMV/Ff:1-5/Fol:0,1/For/Sbl/Va/Vd/Ma/Mi/Mj
Average fruit weight	120 g
Vigour	generative, strong
Crop type	normal open crop structure, robust leaves
Comments	productive; slightly oblate fruits, strong green parts, strong against silvering

**72-492 RZ**

Segment	truss, medium
Resistance	HR: ToMV/Ff:1-5/Fol:0,1/For
Average fruit weight	120 - 130 g
Vigour	generative, strong
Crop type	long and open
Comments	highly productive, jointless and suitable for use with artificial lighting, strong against silvering

**72-493 RZ**

Segment	truss, medium
Resistance	HR: ToMV/TSWV/Ff:1-5/Fol:0,1/Va/Vd
Average fruit weight	135 g
Vigour	generative
Crop type	long and open
Comments	nice truss shape; suitable for use with artificial lighting, strong against silvering



*In the 'truss, large' segment we continue our generative line. Futuno RZ, for instance, is characterised by an open, neat and tidy crop structure, flat trusses and a good shelf life. Endeavour RZ, too, is attracting plenty of interest.*

<b>Levanzo RZ</b>	
Segment	truss, large
Resistance	HR: ToMV/Ff:1-5/Fol:0,1/For/Sbl/Va/Vd
Average fruit weight	140 - 150 g
Vigour	strongly generative, vigorous variety
Crop type	normal crop length; neat and tidy crop structure
Comments	strong against splitting and silvering

<b>Futuno RZ</b>	
Segment	truss, large
Resistance	HR: ToMV/Ff:1-5/Fol:0,1/For/Sbl/Va/Vd
Average fruit weight	140 - 160 g
Vigour	generative
Crop type	normal crop length; nice and open, neat and tidy crop structure
Comments	flat trusses with uniform, beautiful fruits; strong against silvering

<b>Beaumonde RZ (72-480 RZ)</b>	
Segment	truss large
Resistance	HR: ToMV/Ff:1-5/Fol:0,1/For/Va/Vd
Average fruit weight	140 - 150 g
Vigour	normal to generative
Crop type	long, open crop; nice, shorter leaves
Comments	strong green parts; strong against silvering

<b>Endeavour RZ (72-487 RZ)</b>	
Segment	truss, large
Resistance	HR: ToMV/Ff:1-5/Fol:0,1/For/Va/Vd
Average fruit weight	140 - 160 g
Vigour	generative, strong
Crop type	long and open
Comments	robust trusses; sets easily; suitable for summer cropping and for use with artificial lighting



<b>72-486 RZ</b>	
Segment	truss, large
Resistance	HR: ToMV/TSWV/Ff:1-5/Fol:0,1/For/Sbl/Va/Vd
Average fruit weight	135 - 145 g
Vigour	generative, strong
Crop type	long crop
Comments	suitable for summer cropping and for use with artificial lighting

<b>72-488 RZ</b>	
Segment	truss, large
Resistance	HR: ToMV/Ff:1-5/Fol:0,1/For/Va/Vd
Average fruit weight	150 - 160 g
Vigour	generative
Crop type	normal, open
Comments	nice truss shape, glossy fruits, strong against silvering

<b>72-489 RZ</b>	
Segment	truss, large
Resistance	HR: ToMV/Ff:1-5/Fol:0,1/For/Va/Vd
Average fruit weight	170 g
Vigour	generative
Crop type	long, open crop
Comments	highly productive, strong against silvering

<b>72-495 RZ</b>	
Segment	truss, large
Resistance	HR: ToMV/Ff:1-5/Fol:0,1/For/Sbl/Va/Vd
Average fruit weight	150 g
Vigour	generative, strong
Crop type	long, robust, open crop
Comments	strong green parts, productive



*With its combination of high production and excellent fruit qualities, Tomala RZ (72-520 RZ) is a real asset for the small-beef-tomato segment. It's no wonder, then, that there is so much interest in this vigorous, labour-friendly variety.*

<b>Tomala RZ</b>	<b>(72-520 RZ)</b>
Segment	beef, small
Resistance	HR: ToMV/Ff:1-5/Fol:0,1/For/Sbl/Va/Vd IR: On (ex Ol)
Average fruit weight	150 - 180 g
Vigour	normal vigour
Crop type	normal, open crop structure
Comments	high production and good quality

<b>72-614 RZ</b>	
Segment	beef, large
Resistance	HR: ToMV/Ff:1-5/Fol:0,1/For/Sbl/Va/Vd IR: On (ex Ol)
Average fruit weight	250 - 300 g
Vigour	generative
Crop type	long, open, robust
Comments	productive





*There is a choice of two top varieties for autumn cropping. Autunno RZ has already proved in extensive, practical crops that it has great production potential and plenty of stamina. In the medium-large segment, 72-401 RZ is a reliable variety, characterised by a nice, open crop structure.*

<b>Autunno RZ</b>	
Segment	truss, large
Resistance	HR: ToMV/TSWV/Ff:1-5/Fol:0,1/For/Va/Vd
Average fruit weight	160 - 180 g
Vigour	extremely generative
Crop type	jointless, strong against splitting, recommended for crops with 4, 5 and 6 trusses

<b>72-401 RZ</b>	
Segment	truss, medium large
Resistance	HR: ToMV/Ff:1-5/Fol:0,1/For/Va/Vd IR: On (ex OI)
Average fruit weight	140 g
Vigour	generative
Crop type	jointless; open, dark green crop, suitable for longer autumn cropping





*The correct combination of rootstock and cultivar offers many advantages like steerability and production. It's not for nothing that this subject is given a lot of attention by our breeders. Vigorous variety Emperador RZ is very popular and Stallone RZ is also used on many nurseries.*

<b>Big Power RZ</b>	
Segment	rootstocks
Resistance	HR: ToMV:0/Fol:0,1/For/PI/Va/Vd/Ma/Mi/Mj
Vigour	normal, generative
<b>Bruce RZ (61-068 RZ)</b>	
Segment	rootstocks
Resistance	HR: ToMV:0/Ff:0,2,4/Fol:0,1/For/PI/Va/Vd
Vigour	very strong
<b>Emperador RZ</b>	
Segment	rootstocks
Resistance	HR: ToMV:0/Fol:0,1/For/PI/Va/Vd/Ma/Mi/Mj
Vigour	strong
<b>Stallone RZ</b>	
Segment	rootstocks
Resistance	HR: ToMV/Fol:0,1/For/PI/Va/Vd
Vigour	strong, generative





## **Rijk Zwaan Export B.V.**

Burgemeester Crezeelaan 40,  
P.O. Box 40, 2678 ZG, De Lier

The Netherlands

Tel. +31 (0) 174 53 23 00

Fax +31 (0) 174 51 82 43

[export@rijkszwaan.nl](mailto:export@rijkszwaan.nl)

[www.rijkszwaan.com](http://www.rijkszwaan.com)



Differing degrees of specificity exist in the relations between plants and pests or pathogens. Identification of such specificity generally requires the use of highly elaborate analytical methods. Recognizing whether a plant is subject to a pest or pathogen or not may depend on the analytical method employed. 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 new pathogen races capable of overcoming resistance may emerge.

Immunity: not subject to attack or infection by a specified pest or pathogen.

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

Two levels of resistance are defined:

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

Moderate/intermediate resistance (IR<sup>\*</sup>): plant varieties that restrict the growth and development of the specified pest or pathogen, but may exhibit a greater range of symptoms or damage compared to high/standard resistant varieties. Moderately/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 or pathogen pressure.

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

- If in a resistance code of a certain variety reference is made to certain pest biotypes or pathogen races for which the resistance is claimed this means that no resistance is claimed to other biotypes or races of the same pest or pathogen.

- If in a resistance code no reference is made to pest biotypes or pathogen races for which the resistance is claimed this means that resistance is claimed only to certain not further specified pest biotypes or pathogen races.

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