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Breeding & Market Launch

Breeding

Market Launch

Year 2 Year 8 Year 9 Year 10 Year 11 Year 1 Year 3 Year 4 Year 7 Year 5 Year 6

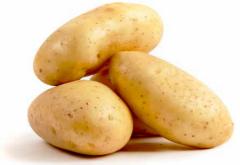
Mandadag

Trial & test candidate and soil types worldwide. Analyse market & data to design new potato varieties.

> **Combine best** characteristics from 2 parents by making crosses.



Select candidates on broad competence starting at key trial field in







Grow candidates in greenhouse to produce tubers for field evaluation in the year after.



Preselect candidates with DNA analysis on important traits 2 weeks after sowing.





Meijer Potato Robustness Index

Meijer Potato believes that everybody deserves to enjoy food. Robust potato varieties are necessary to provide a growing world population with healthy food, even in the face of climate change. Meijer Potato is now launching a digital robustness index with 7 items, made up of different variety characteristics, to objectively compare the robustness of varieties:



- 1. Marketable yield includes e.g. washability and scab tolerance. Thanks to a high marketable yield per hectare, a variety uses scarce agricultural land efficiently.
- 2. Climate adaptation is based on, among other things, the yield and dry matter content in different climates. The more stable the variety scores under different climate conditions, the higher the score in the index.
- **3.** Soil adaptation is about a stable yield and dry matter content on different soil types.
- **4.** Crop protection efficiency concerns e.g. late blight and virus resistant varieties that require less crop protection products. These varieties allow for sustainable farming practices whilst providing security for farmers.
- **5.** Fertilizer efficiency provides insight into how efficiently varieties use e.g. nitrogen and can therefore be grown with respect for nature.
- **6.** Water efficiency concerns e.g. salt-tolerant varieties, but also varieties that deal with a scarce (fresh) water supply more efficiently.
- 7. Storability refers to varieties with e.g. a long dormancy period and varieties with a good frying colour throughout the storage season, resulting in a higher value and higher net output.









We breed potatoes from our vision on changing demand and new opportunities.

Innovation

Technology, research & development for better varieties

The development of new potato varieties takes years. The process from the first crossing to the availability of a new variety on the market takes about 8-12 years. At Meijer Potato, we focus our R&D activities on a more rapid introduction of new high value potato varieties. In this way, we are better able to respond to changes in demand and circumstances, and do so more rapidly.



"Innovation must lead to optimization and speed: more sustainable cultivation and improved applications for our new potato varieties."

- Guus Heselmans

DNA technology

We research potato DNA in order to discover the best markers out of millions of DNA fragments to accelerate and optimize the breeding programme. We utilize our gene pool to look for solutions for all sorts of challenges such as diseases, plagues, droughts, salinization or high temperatures. Our focus is on:

- A stable yield under diverse circumstances
- A high practical value for the whole potato chain

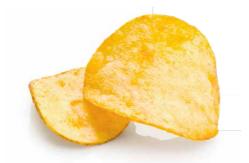
This is reflected well in our varieties.





Crisping varieties

The best crisping varieties develop little sugar in the potato and provide an optimal yield per hectare. In our breeding, we focus on crisping varieties with these characteristics. We increasingly ensure that our varieties are more resistant to the effects of climate change, without loss in the quality of processing and yield.



	Lady Alicia	Lady Amarilla	Lady Claire
Yield	High	Medium	Medium
Underwater weight	466	406	436
Dry matter (%)	25,0	22,1	23,6
Maturity	Medium	Mid Early	Early/Mid Early
Dormancy	Medium	Long	Medium Long
Bruise index (*1)	17	3	8
Second growth (*2)	7,6	7,4	7,0
Common scab (*2)	7,7	6,5	7,2
Phytophthora resistance (*2)	3,6	4,0	3,1
Y-virus resistance	6,5	7,5	6
Yntn-virus resistance	8	7	7
Tuber Shape	Round/Round Oval	Oval	Round Oval
40/70 mm (%)	85	89	90
Skin Colour	Dark Yellow	Dark Yellow	Dark Yellow
Flesh Colour	Light Yellow	Yellow	Light Yellow
Tuber Uniformity	Very High	Good	Very High
Depth of the eyes	Shallow	Shallow	Shallow
Internal Defects (%)	0	0	0
Hollow Heart (%)	0	0	0
Crisp colour October (8 °C)	8	8	8
Crisp colour February (8 °C)	8	8	8
Crisp colour May (8 °C)	6	7	8
Crisp colour June (4 °C)	7	7	8
Nematode Ro1 (*2)	9	1	9
Nematode Ro2/3 (*2)	1	1	
Nematode Pa2 (*2)	2	1	
Nematode Pa3 (*2)	1	1	
Wart disease wz 1 (D1) (*3)	4	10	10
Wart disease wz 2 (G1) (*3)		7	
Wart disease wz 6 (O1) (*3)	6	4	7
Wart disease wz 18 (T1) (*3)	4	4	

^{(*1): 0 =} free, 50 = very heavy (*2): 9 = highly resistant, 1 = very susceptible (*3): 10 = resistant, 3 = very susceptible

Lady Rosetta	Lady Britta
Medium	Medium
464	449
25,0	24,1
Mid Early	Early
Medium	Medium Long
35	15
7,0	7,1
6,5	7,0
3,2	3,6
7,5	7,5
7	
Round	Round
76	80
Red	Yellow
Light Yellow	Dark Yellow
Very High	Good
Shallow	Shallow
5	0
1	100
8	8
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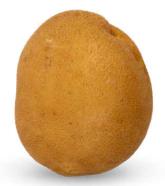
Crisping varieties



Lady Alicia

Fast grower with a high yield.

Yield	High
Underwater weight	466
Dry matter (%)	25,0
Maturity	Medium
Dormancy	Medium
Tuber Shape	Round/Round Oval
Skin Colour	Dark Yellow
Flesh Colour	Light Yellow



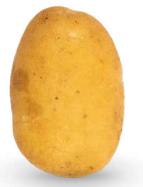
- Crisping variety with strong plants that survive stress periods well
- High dry matter content in the tuber and not susceptible to blackspot
- Not susceptible to scab
- High tonnage per hectare
- Excellent cooking quality, also after long storage



Lady Amarilla

Flexible utilization with year-round quality.

Yield	Medium
Underwater weight	406
Dry matter (%)	22,1
Maturity	Mid Early
Dormancy	Long
Tuber Shape	Oval
Skin Colour	Dark Yellow
Flesh Colour	Yellow



Traits

- Early ripening and good storage qualities ensure a long shelf life
- Low level of reduced sugars
- Stable underwater weight, blackspot blemish sensitivity is very low
- Loosen up propagation material well
- Sensitive to Alternaria, start control measures early in the season
- Spray irrigation is necessary with light soil cultivation



Lady Claire

Mainstay for the crisps industry when it comes to guaranteeing quality.

Yield	Medium
Underwater weight	436
Dry matter (%)	23,6
Maturity	Early/Mid Early
Dormancy	Medium Long
Tuber Shape	Round Oval
Skin Colour	Dark Yellow
Flesh Colour	Light Yellow



Traits

- Crisping variety that can be used year-round
- The transparent skinned tubers are round-oval and easy to peel
- Long storage possible at a temperature of 6°C
- Loosen propagation material well
- Timely start to combat Phytophthora
- Be alert to a lack of magnesium



Lady Rosetta

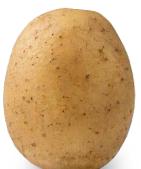
The straight off the land crisping variety.

Medium
464
25,0
Mid Early
Medium
Round
Red
Light Yellow

- Crisping variety reaches its dry matter content and low sugars early in the season
- Red skin, round, uniform tuber with fairly shallow eyes
- High harvest security with a good yield thanks to a uniform tuber sorting size
- Fairly fast foliage development with good soil coverage
- Loosen propagation material well
- Start suppressing Phytophthora early on
- Ventilation to dry straight after harvesting
- Prevent blackspot

Crisping varieties





Lady Britta

Excellent crisping potato for sandy soils.

Yield	Medium
rieia	Medium
Underwater weight	449
Dry matter (%)	24,1
Maturity	Early
Dormancy	Medium Long
Tuber Shape	Round
Skin Colour	Yellow
Flesh Colour	Dark Yellow

- Easy to process directly off the land
- Long shelf life thanks to low sugar content in the tuber
- Crisping variety has a deep-yellow colour, shallow eyes and a uniform sorting size
- Gives high results during processing to end product
- Extremely suited for growing on sandy soils



French fry varieties

French fry products call for high quality expressed in a high percentage of dry matter, a smooth, uniform shape and few eyes. We strive for little loss through diseases and plagues by breeding the necessary resistance, a good yield and storage life, and, additionally, good processing features for the French fry factory all year round.



	Lady Jane	Lady Amarilla	Lady Anna	Lady Olympia
Yield	Very High	Medium	Relatively High	High
Underwater weight	428	406	429	410
Dry matter (%)	23,2	22,1	23,3	22,3
Maturity	Medium	Mid Early	Medium	Medium
Dormancy	Medium	Long	Long	Medium Long
Bruise index (*1)	23	3	6	13
Second growth (*2)	6,8	7,4	7,3	6,3
Common scab (*2)	6,8	6,5	7,1	6,4
Phytophthora resistance (*2)	8,9	4,0	4,2	3,0
Y-virus resistance	8	7,5	7	8
Yntn-virus resistance	7	7	7	5,5
Tuber Shape	Long Oval	Oval	Long/Long Oval	Long Oval/Oval
50/+ mm %	76	74	65	78
40/70 mm (%)	75	89	88	76
Skin Colour	Dark Yellow	Dark Yellow	Yellow	Light Yellow
Flesh Colour	Yellow	Yellow	Light Yellow	Light Yellow
Depth of the eyes	Shallow	Shallow	Shallow	Shallow
Tuber Uniformity	Good	Good	Good	Good
Internal Defects (%)	1	0	0	0
Hollow Heart (%)	2	0	0	6
French fry colour October (8 °C)	8	8	8	7
French fry colour February (8 °C)	8	8	8	7
French fry colour May (8 °C)	6	8	6	7
French fry colour June (4 °C)	6	7	5	5
Nematode Ro1 (*2)	9	1	9	
Nematode Ro2/3 (*2)	3	1	8	
Nematode Pa2 (*2)	3	1	8	
Nematode Pa3 (*2)	1	1	2	
Wart disease wz 1 (D1) (*3)	10	10	10	10
Wart disease wz 2 (G1) (*3)		7		
Wart disease wz 6 (O1) (*3)	4	4	4	8
Wart disease wz 18 (T1) (*3)	4	4	4	

(*1): 0 = free, 50 = very heavy (*2): 9 = highly resistant, 1 = very susceptible (*3): 10 = resistant, 3 = very susceptible, Foliar late blight resistance







French fry varieties



Lady Jane 🕖

Stress-resistant and easy to cultivate French fry variety.

Yield	Very High
Underwater weight	428
Dry matter (%)	23,2
Maturity	Medium
Dormancy	Medium
Tuber Shape	Long Oval
Skin Colour	Dark Yellow
Flesh Colour	Yellow



- Stress-resistant and easy to cultivate
- Resistance against Phytophthora
- Extremely high yield per hectare
- Good dry matter content
- Maintains a good colour after cooking



Foliar late blight resistance



Lady Amarilla

Flexible utilisation with year-round quality.

Yield	Medium
Underwater weight	406
Dry matter (%)	22,1
Maturity	Mid Early
Dormancy	Long
Tuber Shape	Oval
Skin Colour	Dark Yellow
Flesh Colour	Yellow

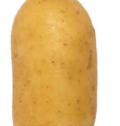


- Early ripening and good storage qualities ensure a long shelf life
- Low level of reduced sugars
- Stable underwater weight, blackspot blemish sensitivity is very low
- Loosen up propagation material well
- Sensitive to Alternaria, start control measures early in the season
- Spray irrigation is necessary with light soil cultivation





Yield	Relatively High
Underwater weight	429
Dry matter (%)	23,3
Maturity	Medium
Dormancy	Long
Tuber Shape	Long/Long Oval
Skin Colour	Yellow
Flesh Colour	Light Yellow



Traits

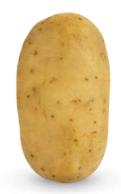
- High processing return
- Not susceptible to blackspot, scab or stolon formation
- French fries variety with resistance for potato fatigue (A, B, C and D)
- Loosen up propagation material well and no refrigeration
- After sprouting, allow to loosen up again
- Good soil temperature is necessary for a steady emergence
- Do not plant too deep



Lady Olympia

Loosen up propagation material well.

Yield	High
Underwater weight	410
Dry matter (%)	22,3
Maturity	Medium
Dormancy	Medium Long
Tuber Shape	Long Oval/Oval
Skin Colour	Light Yellow
Flesh Colour	Light Yellow



- Answers to stringent demands from the French fries industry
- Potato variety with uniform tubers with shallow eyes and light-yellow flesh
- Long storage at a low temperature, maintains its frying colour
- Not very susceptible to blackspot
- Loosen propagating material
- Timely suppression of Phytophthora



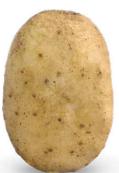
French fry varieties



Lady Terra

Excels in its above average yield.

Yield	Very High
Underwater weight	420
Dry matter (%)	22,8
Maturity	Medium
Dormancy	Medium
Tuber Shape	Long/Oval
Skin Colour	Yellow
Flesh Colour	Light Yellow



Traits

- Consistent above average yield per hectare
- High stress resistance
- French fries variety with strong plants



Lady Forte

Cream flesh colour & very high yield.

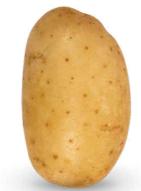
Yield	Very High
Underwater weight	427
Dry matter (%)	22,9
Maturity	Medium
Dormancy	Long
Tuber Shape	Long Oval/Oval
Skin Colour	Yellow
Flesh Colour	Cream



- High yield/ha
- Very uniform tuber shape and size
- High quality in long term storage
- Cream flesh colour







Lady Luce

Long and strong with a white flesh colour.

Yield	Very High
Underwater weight	392
Dry matter (%)	21,3
Maturity	Medium Long
Dormancy	Long
Tuber Shape	Long Oval
Skin Colour	Yellow
Flesh Colour	White

Traits

- White flesh colour
- Long term storability with excellent fry colour
- Consistently high yield with low nitrogen requirement
- Resistant to Globodera Pallida 2 & 3



Variety catalogue - French fry varieties Variety catalogue - French fry varieties

Consumers increasingly look for convenience and value taste. This is why we focus on the breeding of attractive and tasty potato varieties. For growers, sustainable cultivation, a high yield, uniform product quality, and easy cultivation under varying climate conditions, are all important factors. For all stakeholders, a good storage life and processing options without much waste are vital. These demands determine the guidelines for our breeding of table potatoes.

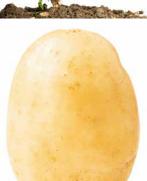
	Acoustic	Sound	Cupido	Jazzy	Melody
Yield	Very High	Very High	Medium	Medium	High
Underwater weight	327	357	370	340	375
Dry matter (%)	18,1	19,7	20,4	18,8	20,5
Maturity	Medium	Medium	Mid Early	Mid Early	Late
Dormancy	Medium	Medium Long	Medium Long	Short	Medium Long
Bruise index (*1)	9	17	19	6	11
Second growth (*2)	7,0	6,8	7,0	6,7	7,4
Common scab (*2)	6,1	6,7	5,6	6,6	7,3
Phytophthora resistance (*2)	9,5	9,1	2,9	2,8	4,1
Y-virus resistance	8		9	6	7,5
Yntn-virus resistance	10	7	10	7	10
Tuber Shape	Round Oval	Long Oval	Round Oval/ Oval	Long	Round Oval
50/+ mm %	79	71	82	19	80
40/70 mm (%)	72	76	81	61	72
Skin Colour	Light Yellow	Light Yellow	Light Yellow	Light Yellow	Light Yellow
Flesh Colour	Light Yellow	Light Yellow	Light Yellow	Light Yellow	Light Yellow
Depth of the eyes	Shallow	Shallow	Very Shallow	Very Shallow	Shallow
Tuber Uniformity	Very High	Good	Very High	Good	Very High
Washability	Good	Very High	Very High	Very High	Good
Internal Defects (%)	2	1	0	1	1
Hollow Heart (%)	1	0	0	0	0
Cooking type February	Reasonably Firm	Reasonably Firm	Firm	Firm	Reasonably Firm
French fry colour October (8 °C)	5	6	5	4	5
French fry colour February (8 °C)	5	6	4	3	4
French fry colour May (8 °C)	4	6	5	3	3
Nematode Ro1 (*2)	9	9	9	3	9
Nematode Ro2/3 (*2)	6	4			4
Nematode Pa2 (*2)	1	3			5
Nematode Pa3 (*2)	1	1			1
Wart disease wz 1 (D1) (*3)	10	10		10	10
Wart disease wz 2 (G1) (*3)				7	9
Wart disease wz 6 (O1) (*3)	4	4	7	7	9
Wart disease wz 18 (T1) (*3)	6	4		8	5

(*1): 0 = free, 50 = very heavy (*2): 9 = highly resistant, 1 = very susceptible (*3): 10 = resistant, 3 = very susceptible, Foliar late blight resistance











Tasty table potato with pure traits.

Yield	Very High
Underwater weight	327
Dry matter (%)	18,1
Maturity	Medium
Dormancy	Medium
Cooking type	Reasonably Firm
Tuber Shape	Round Oval
Skin Colour	Light Yellow
Flesh Colour	Light Yellow

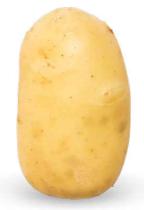
Traits

- Being late blight resistant, it's suitable for both conventional and organic cultivation
- Has a high yield both on lighter soil and heavier soil
- Stress and weather resistant
- Round oval uniform tubers with a good skin



Foliar late blight resistance







Robust and stress-resistant variety with high yield.

Yield	Very High
Underwater weight	357
Dry matter (%)	19,7
Maturity	Medium
Dormancy	Medium Long
Cooking type	Reasonably Firm
Tuber Shape	Long Oval
Skin Colour	Light Yellow
Flesh Colour	Light Yellow

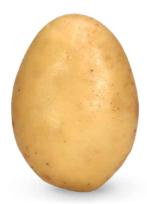
Traits

- Resistance against Phytophthora
- High yields per hectare
- Good dry matter content
- Long oval tubers with fine skin



Foliar late blight resistance





Cupido

Early variety with a good skin.

Yield	Medium
Underwater weight	370
Dry matter (%)	20,4
Maturity	Mid Early
Dormancy	Medium Long
Cooking type	Firm
Tuber Shape	Round Oval/Oval
Skin Colour	Light Yellow
Flesh Colour	Light Yellow

Traits

- Nice skin in combination with a fairly waxy cooking type
- Early variety with rough tubers and shallow eyes, gives a high yield per hectare
- Do not plant early in cold ground and do not cultivate on scab sensitive soil
- Prevent too strong germination
- Important to allow to harden off well before harvesting, after harvesting ensure ventilation to dry as soon as possible





Jazzy

Renewal for the potato sector: wash, cook, and enjoy.

Yield	Medium
Underwater weight	340
Dry matter (%)	18,8
Maturity	Mid Early
Dormancy	Short
Cooking type	Firm
Tuber Shape	Long
Skin Colour	Light Yellow
Flesh Colour	Light Yellow

- Productive potato variety, both in the number of tubers per plant, as well as yield
- Waxy type (A) with a good taste and good texture
- Very low blemish index promotes the internal quality
- Wash well before processing
- Table potato Jazzy can be stored well





Melody

The stable table variety.

Yield	High
Underwater weight	375
Dry matter (%)	20,5
Maturity	Late
Dormancy	Medium Long
Cooking type	Reasonably Firm
Tuber Shape	Round Oval
Skin Colour	Light Yellow
Flesh Colour	Light Yellow



Traits

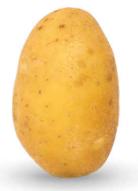
- Table variety with very regular shallow-eyed tubers
- Good trait
- Robust, stress-resistant plants ensure a good, harvest-secure production
- Long dormancy period
- Loosen up propagation material well
- Ventilate to dry as soon as possible after harvesting
- Careful use of sprout inhibitor during storage
- Melody is a sensitive variety when it comes to TNV disease



Musica

Easy to cultivate and strong.

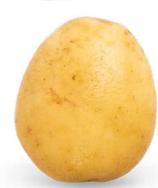
Yield	Very High
Underwater weight	361
Dry matter (%)	19,9
Maturity	Mid Early
Dormancy	Medium Short
Cooking type	Firm
Tuber Shape	Long Oval/Oval
Skin Colour	Yellow
Flesh Colour	Yellow



Traits

- Dark yellow colour waxy potato
- Productive, middle-early variety and resistant against Yntn-virus and a range of potato fatigue causers (A, B, C and D)
- Multi-functional, also for the chilled fresh industry
- Do not pre-germinate
- To keep the nice skin, do not let the crop die off naturally





Orchestra

Stable, robust variety with high net yield.

Yield	High
Underwater weight	319
Dry matter (%)	17,8
Maturity	Mid Early
Dormancy	Medium
Cooking type	Firm
Tuber Shape	Round Oval/Oval
Skin Colour	Light Yellow
Flesh Colour	Light Yellow

Traits

- Robust and early potato variety
- Stress-resistant and intended for the waxy table potato market and grill market
- Do not cultivate on scab sensitive soil
- Loosen propagation material
- Timely suppression of Phytophthora
- Careful use of sprout inhibitor during storage
- Sensitive to fusarium



Soprano

Ideal combination of appearance, sorting and yield.

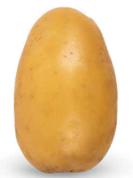
Yield	Relatively High
Underwater weight	356
Dry matter (%)	19,5
Maturity	Mid Early
Dormancy	Medium
Cooking type	Reasonably Firm
Tuber Shape	Long Oval/Oval
Skin Colour	Light Yellow
Flesh Colour	Light Yellow



- Potato variety with a good appearance and uniform sorting size
- High marketable yield
- Fairly waxy potato also suitable for homemade French fries
- Sensitive to scab
- Not sensitive to blackspot







Lady Christl

Early variety with an excellent appearance and taste.

Yield	Medium
Underwater weight	347
Dry matter (%)	19,1
Maturity	Early
Dormancy	Medium Short
Cooking type	Firm
Tuber Shape	Long Oval/Oval
Skin Colour	Yellow
Flesh Colour	Light Yellow

- Table variety with good appearance, long oval tuber shape, fairly yellow flesh and suitable for washing
- Year-round availability made possible through cultivation in various regions
- Waxy table variety with many tubers of uniform sorting size, high marketable yield, early variety
- Surprising consumption quality, early variety offers growers assurance
- Do not pre-germinate
- Prevent deterioration by Rhizoctonia
- On lighter soils a third application of N. may be useful
- Be alert for a lack of magnesium
- Watch out for silver scurf
- Do not use sprout inhibitor during storage





Contact

Any questions? Please contact one of our employees. We will be looking forward to answering your questions.



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