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New rootstock M200 P.V.R.*

CHARACTERISTICS



ROBUSTA 5 X OTTAWA 3 CROSS

- BREEDER: NIAB EMR, UK
- EDITOR: IFO

**VIGOUR LEVEL
SUPERIOR TO M9 AND G11**

**PRODUCTION LEVEL
20 TO 35% HIGHER THAN M9**

**TOLERANT
TO PHYTOPHTHORA**

**GOOD TOLERANCE
TO FIREBLIGHT**

VERY GOOD REPLANTING BEHAVIOUR



Visit our Youtube channel to watch rootstock trials and testimonials.



Plantation of Pinkgold® Leratess (Golden Delicious), in 2nd leaf, in replanting situation and without soil disinfection. On the left, trees on M9 EMLA and on the right on M200. P.V.R.



The grafting point of the M200 P.V.R. is always very smooth. Here, with Gala Brookfield® Baigent C.O.V. in 6th leaf.

La Morinière

NB: rootstock experimentation is characterised by great variability from one site to another, from one variety to another and from one year to another. As this rootstock is still relatively new, the information given is indicative and may change in the future depending on observations in the years to come. Although this new rootstock has been tested for a number of years in many of the world's fruit-growing regions, Dalival accepts no responsibility for any as yet undetected problems encountered after planting in orchards.

*P.V.R. = Plant variety rights - P.V.R. applied for

EXPERIMENTAL RESULTS ON THE ROOTSTOCK M200 P.V.R.

The rootstock M9 has been the benchmark for apple rootstocks in Europe (and indeed the world) for several decades. The various clones (Pajam® 1 Lancep, T337, EMLA, Pajam®2 Cepiland, etc.), characterised by different levels of vigour, have provided solutions for fruit growers to their situations of new soils or replanting.

The emergence of new problematics has led to new expectations:

- Replanting and soil weakening: some orchards are in 4th generation of replantation. In addition, the widespread use of hail nets is forcing fruit growers to replant on the same rows, exacerbating the problem.

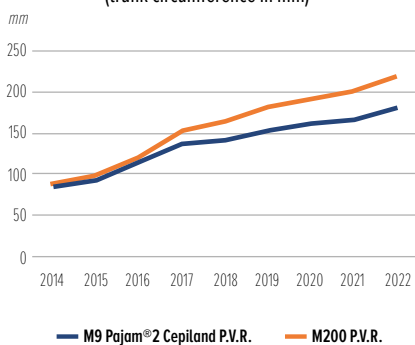
- Orchard weeding is becoming more complex and fruit growers appreciate rootstocks that produce less suckers than M9.
- Double-axis orchards work better with more vigorous rootstocks.
- Organic growers are also looking for more vigorous rootstocks to compensate for a more complex nitrogen supply or greater weed control constraints.
- Fruit growers need to increase productivity to improve orchard profitability.

The rootstock M200 P.V.R. has been studied for around ten years by all the European research stations. To show you the advantages of this rootstock, we have compiled the results from several station.

VIGOUR AND PRODUCTIVITY

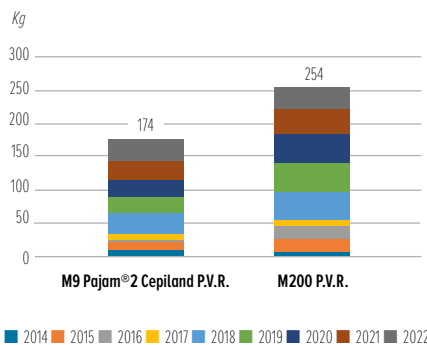
RESULTS FROM IFO, FRANCE - VARIETY GOLDEN REINDERS - PLANTATION 2013

Evolution of vigour from 1st to 9th leaf
(trunk circumference in mm)



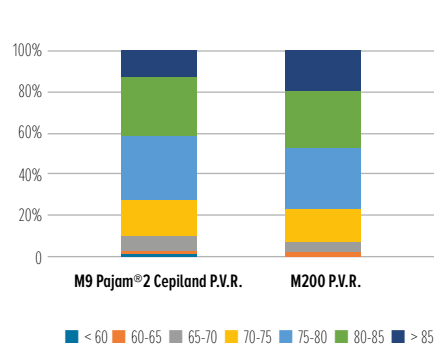
Under identical soil conditions, M200 P.V.R. is more vigorous than M9 Pajam® 2 Cepiland P.V.R.

Cumulative yield in kg / tree



The M200 P.V.R. produced a higher yield each year, i.e. 45% higher cumulative yield in this trial.

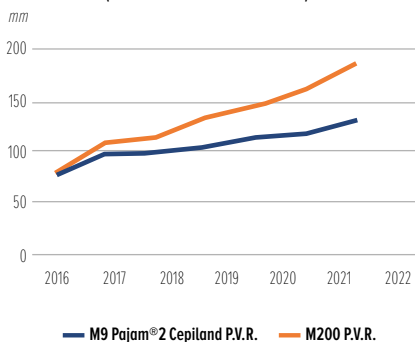
Cumulative fruit sizes



In this trial, the M200 P.V.R. also produced larger fruit sizes.

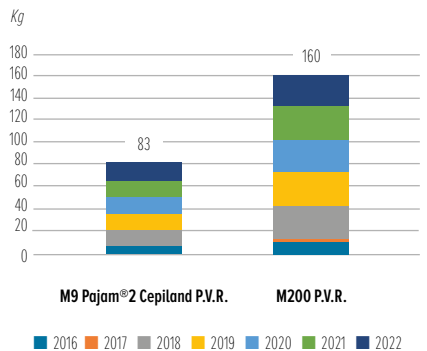
RESULTS FROM IFO, FRANCE - VARIETY GALA - (clone Gala Brookfield® Baigent P.V.R.) - PLANTATION 2015

Evolution of vigour from the 1st to the 7th leaf
(trunk circumference in mm)



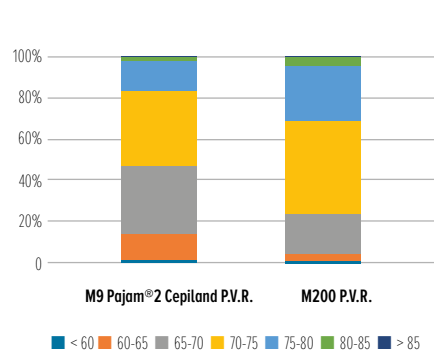
Under identical soil conditions, M200 P.V.R. is more vigorous than M9 Pajam® 2 Cepiland P.V.R.

Cumulative yield in kg/tree



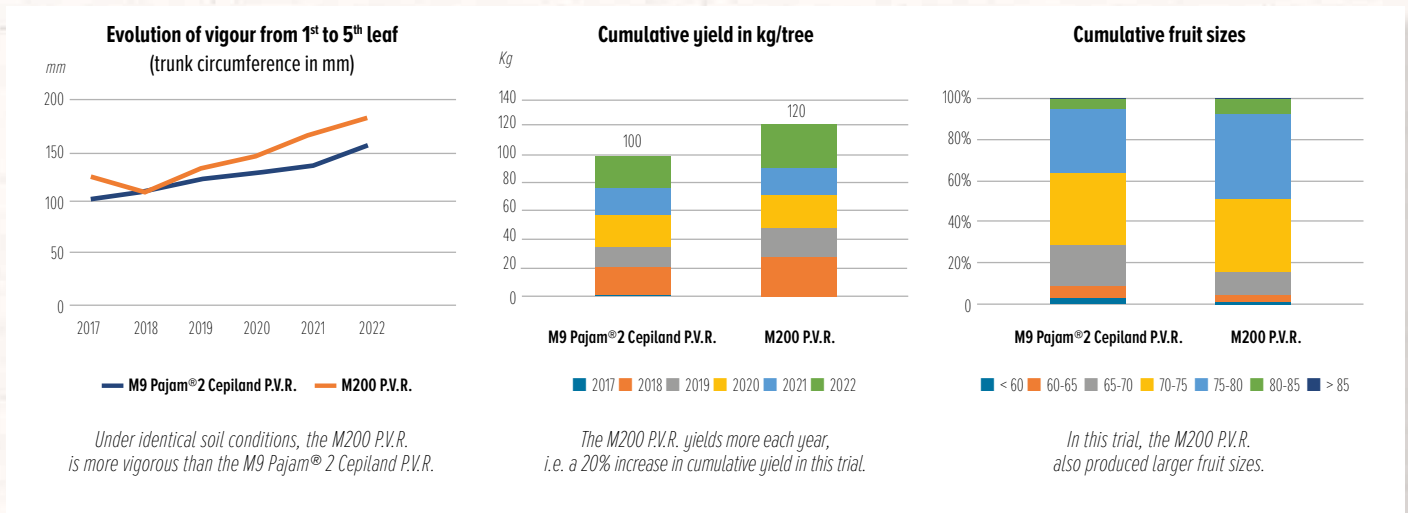
The M200 P.V.R. gives a larger crop load than the M9 in this trial.

Cumulative fruit sizes

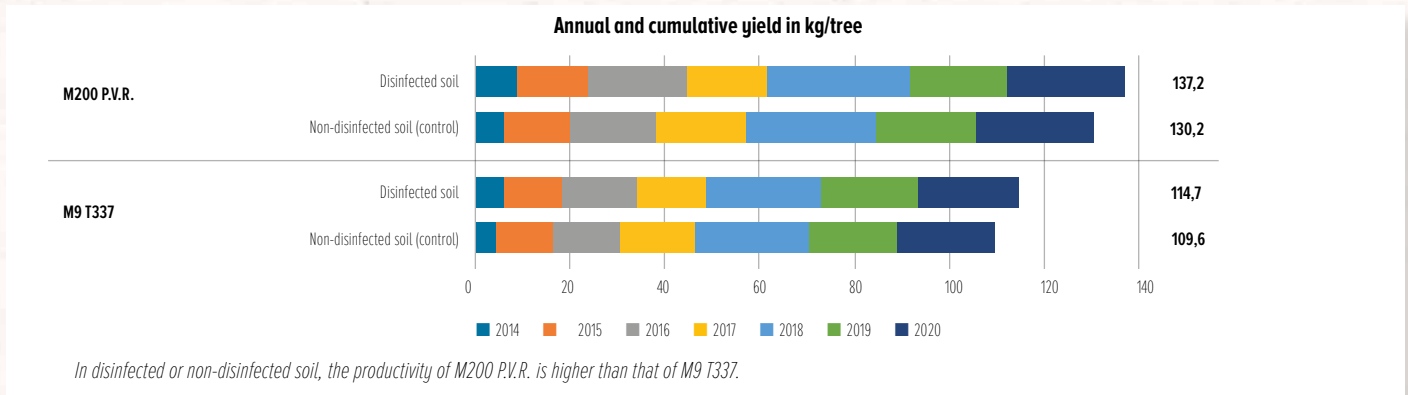


In this trial, the M200 P.V.R. also produced larger fruit sizes.

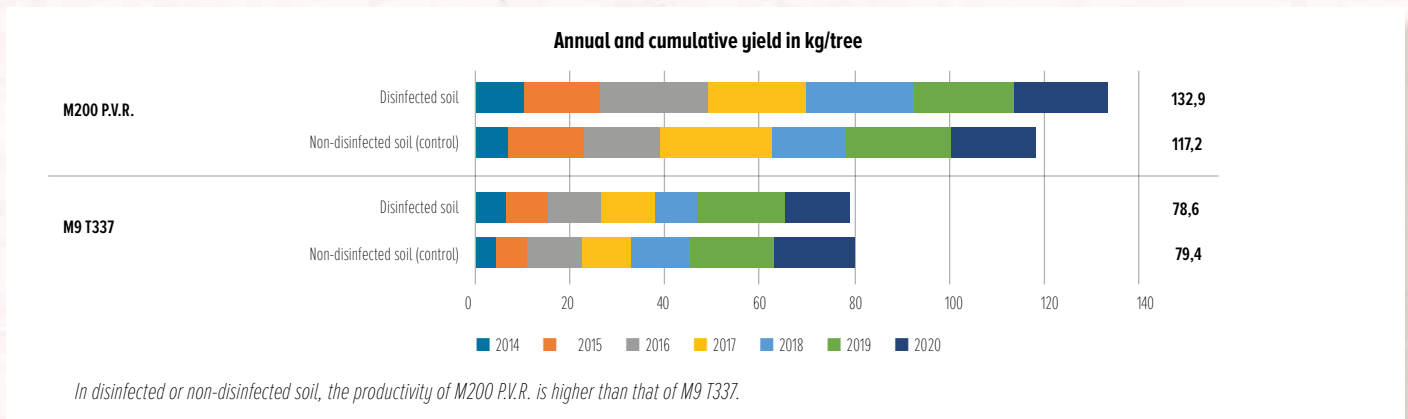
RESULTS FROM IFO, FRANCE – VARIETY GALA - (clone Galaval P.V.R.) - PLANTATION 2016



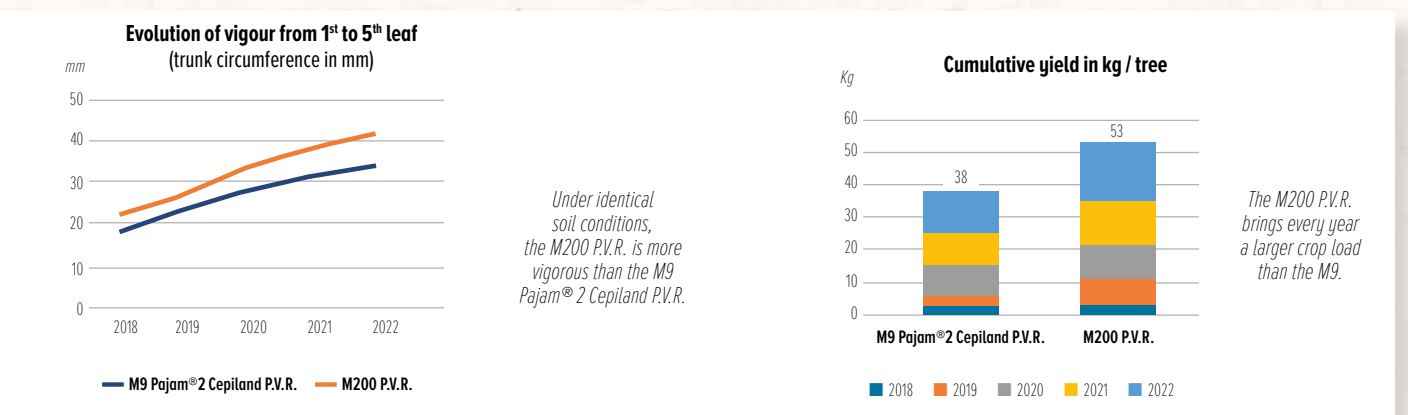
RESULTS FROM DLR RHEINPFALZ, KLEIN-ALTENDORF, GERMANY - VARIETY GALA (clone Buckeye® Gala Simmons P.V.R.) PLANTATION 2013



RESULTS FROM LAIMBURG, ITALY - VARIETY GALA (clone Buckeye® Gala Simmons P.V.R.) - PLANTATION 2013



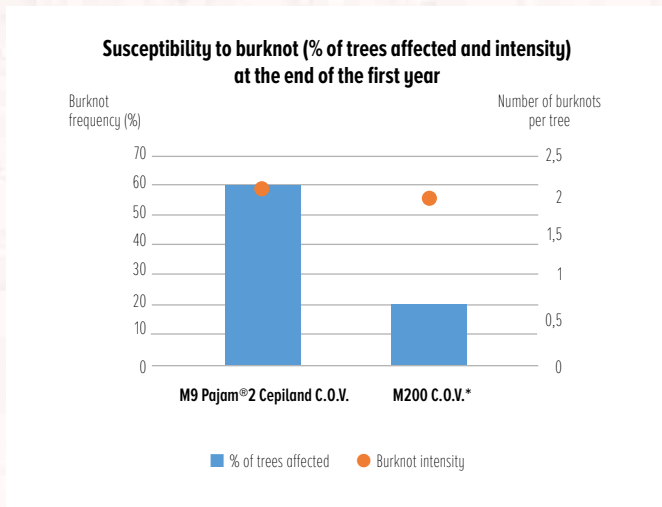
RESULTS FROM HAIDEGG, AUSTRIA - VARIETY GALA - (clone GalavalP.V.R.) - PLANTATION 2017



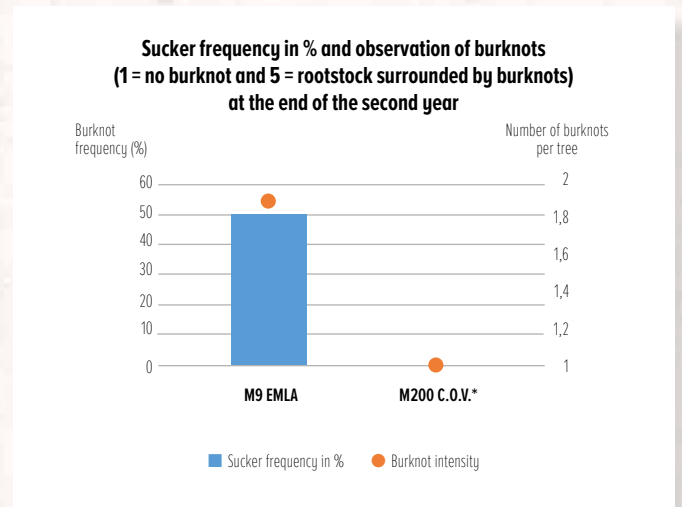
BURKNOTS AND SUCKERS

In the orchard, trees planted on M200 P.V.R. develop less suckers and burknots, which facilitates weed and aphid control.

RESULTS FROM SEFRA, FRANCE - VARIETY DALINETTE P.V.R



RESULTS FROM CTIFL LA MORINIÈRE, FRANCE - VARIETY GALA (clone Brookfield® Gala Baigent P.V.R.)



FINANCIAL EVALUATION

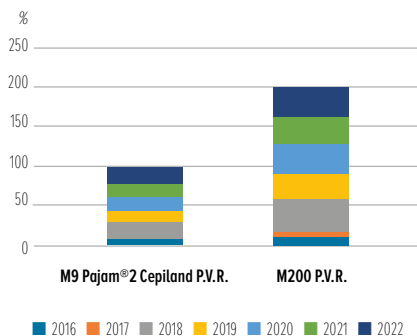
A rootstock that generates greater productivity and a better range of fruit sizes will generate a higher annual income per hectare. However, this calculation is complex because it is multifactorial and has many biases. We carried out this exercise on the Brookfield®

Baigent Gala trial, planted at IFO in 2015. We based our calculation on bin price for the fruit (without packaging, storage, grading and packing costs), which remains the same every year, and we expressed this price per hectare.

Fruit size	< 60	60-65	65-70	70-75	75-80	80-85	> 85
€/kg	0,20	0,25	0,30	0,42	0,52	0,60	0,60

Cumulative production (kg/tree)	M9 Pajam® 2 Cepiland P.V.R.	6,9	16,4	27,0	23,3	7,4	1,2	0,8
	M200 P.V.R.	9,3	27,8	52,1	47,4	18,8	3,0	2,0

Percentage of estimated cumulative turnover between 2016 and 2022



In this trial and over the first seven years of production, annual and cumulative turnover per hectare are higher for M200 P.V.R.

NB: As economic results vary greatly from one orchard to another and are linked to soil and climate conditions and the vagaries of the weather, Dalival cannot be held responsible for any differences in financial results.



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