

# DALIVAL

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# New Rootstock GENEVA® G11 P.V.R.

## CHARACTERISTICS



**CROSS OF M26 X ROBUSTA 5**

- BREEDER: CORNELL UNIVERSITY, USA
- EUROPEAN VARIETY MANAGER: EFTR

BETTER PRODUCTIVITY THAN M9	TOLERANT TO FIREBLIGHT
BETTER EARLY FRUIT BEARING THAN M9	TOLERANT TO PHYTOPHTHORA
VERY GOOD COMPATIBILITY WITH ALL COMMERCIAL VARIETIES	MORE TOLERANT TO WINTER FROST THAN M9
VERY GOOD BEHAVIOUR IN REPLANT SITUATION	VERY GOOD BEHAVIOUR IN POOR SOIL
BETTER COLOUR, FIRMNESS, FRUIT SIZE, SUGAR LEVEL, observed in most trials	

- With a very good behaviour in replant situation, GENEVA® G11 P.V.R. is a true alternative to soil fumigation. Furthermore, the general use of hail nets, forces the grower to plant in the same row, plantation after plantation.
- Suitable for the organic fruit grower who needs a rootstock more vigorous than M9 but with similar or superior yields and with earlier fruit bearing.
- Its opened angle branches allow an earlier fruit bearing, which generates faster returns.
- Its opened angle branches also induce better colour, resulting in better grade-outs and less picks (i.e. less labour costs and better storage of the fruit).

## INCREASE IN PRODUCTIVITY AND VIGOUR BY +10 TO +15% COMPARED TO M9



Dalival's stool beds



Photo : Monnière research station

This rootstock being relatively new, the information provided in this document is only indicative and might change in the future, depending on our observations during the coming years. Although this new rootstock has been tested for several years and in many places worldwide, Dalival cannot be liable to problems that would appear after commercial planting and which would not have been identified yet.

# RESULTS OF EXPERIMENTATION ON THE ROOTSTOCK GENEVA® G11 P.V.R.

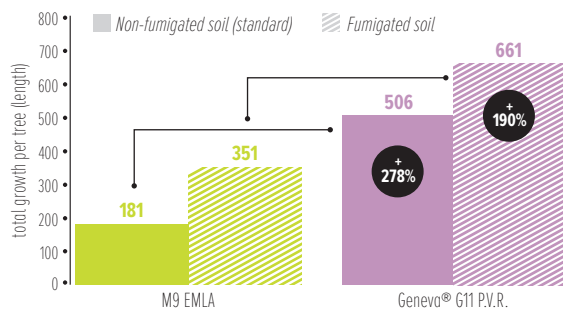
**The first trees on rootstock Geneva® G11 P.V.R. will soon be available commercially. To present you the advantages of this rootstock, we have gathered the observation results of several European research stations.**

The rootstocks from the Geneva programme (in the USA) have been experimented for more than 2 decades. The Geneva® G11 P.V.R., in comparison with the M9, presents consistent technical results in the majority of the European experimentation sites.

Several criteria have determined Dalival's choice to develop the Geneva® G11 P.V.R.: its good aptitude for propagation, its good rooting in stool bed and its adaptation in the orchard after plantation make it possible to secure a qualitative development in the nurseries and the orchards.

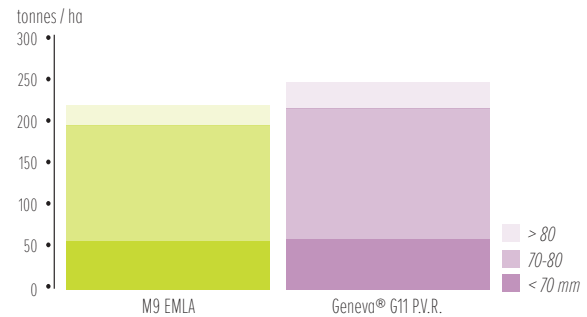
## RESULTS FROM LA MORINIÈRE RESEARCH STATION, FRANCE (RESULTS PRESENTED IN JAN. 2017)

### Comparative vegetative growth for the variety Brookfield® Baigent P.V.R. at the end of the 1<sup>st</sup> growing season



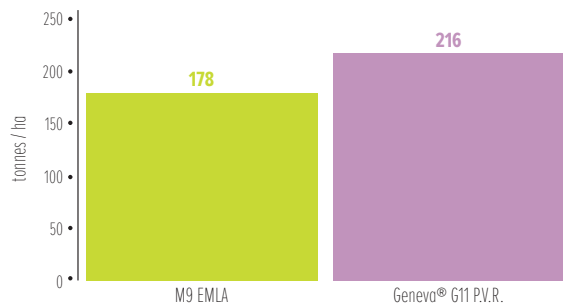
> The Geneva® G11 P.V.R. clearly shows **an increase in vigour** compared to the M9 in fumigated soil (+190%) and especially in non-fumigated soil (+278%)

### Fruit size distribution in tonnes / ha - (7<sup>th</sup> leaf aggregate) for the variety Brookfield® Baigent P.V.R.



> The Geneva® G11 P.V.R. allows both **an increase in size and tonnage** compared to the M9 EMLA

### Yield of very coloured fruits - (7<sup>th</sup> leaf aggregate) for the variety Brookfield® Baigent P.V.R.



> The Geneva® G11 P.V.R. **improves the volume of very coloured fruit**, even with a higher cumulative tonnage than the M9 EMLA

### Tree vigour difference for the variety Brookfield® Baigent P.V.R. for 2 rootstocks (end of 1<sup>st</sup> leaf, replanted soil, no fumigation), same age of trees

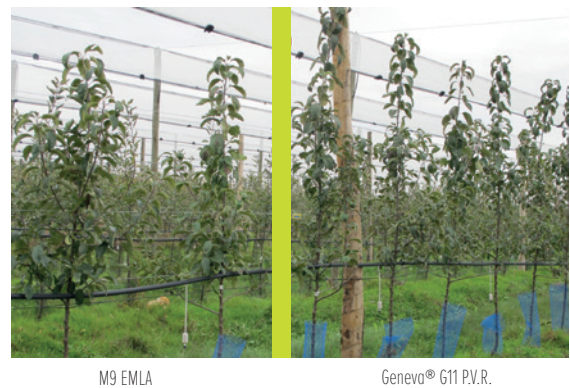
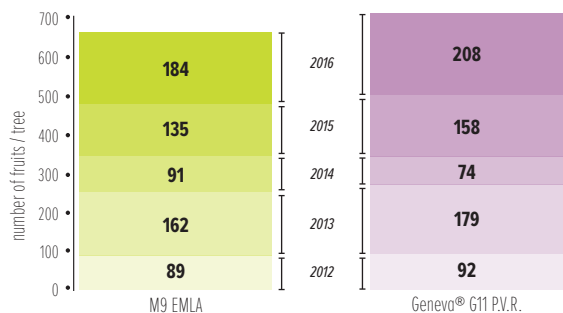


Photo : Morinière research station

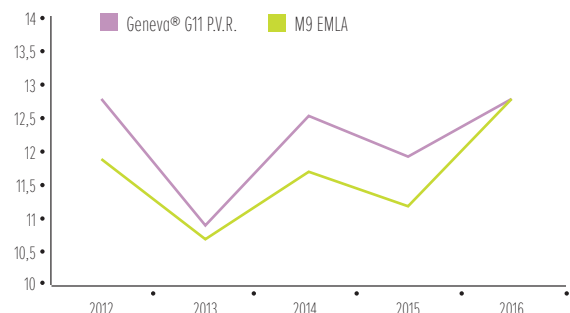
### Fruit quality / yield ratio for the variety Brookfield® Baigent P.V.R.

#### Number of fruit per tree:



> Except for 2014, every year, the trees on Geneva® G11 P.V.R. **have a heavier load** than the trees on M9 EMLA

#### Sugar levels:



> Except for 2016, every year, the fruit from trees on Geneva® G11 P.V.R. **have more sugars** than the fruit from trees on M9 EMLA and this even with a higher yield

## RESULTS PUBLISHED BY IRTA, MAS BADIA RESEARCH STATION, SPAIN, IN 2012 AND 2015

### Cumulative production of class 1 fruit from the 1<sup>st</sup> to the 3<sup>rd</sup> leaf with the variety Brookfield® Baigent P.V.R.

% of fruit in class 1

M9 Pajam®2 Cepiland P.V.R.	85.7%
Geneva® G11 P.V.R.	92.2%

> The Geneva® G11 P.V.R. generates a cumulative production over 3 years superior to the M9 Pajam® 2 Cepiland P.V.R.

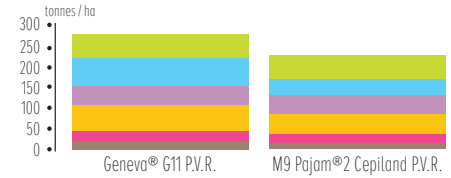
### Quality parameters

Rootstock	Firmness	Sugars (Brix)	Acidity
M9 Pajam®2 Cepiland P.V.R.	7.7	12.1	3.6
Geneva® G11 P.V.R.	8.3	13.2	3.9

> The Geneva® G11 P.V.R. shows better results in firmness, sugar and acidity than the M9 Pajam® 2 Cepiland P.V.R. (with a higher tonnage)

### Cumulative production between 2002/2007 for the variety Golden Reinders® P.V.R. with different rootstocks

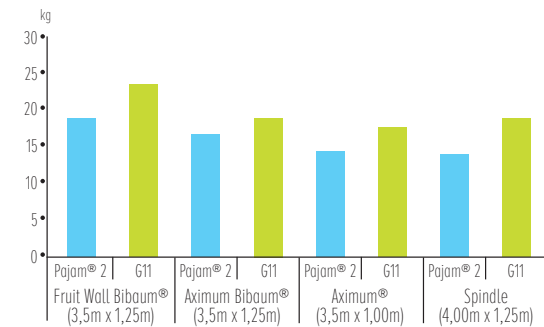
Legend: 2007 (green), 2006 (blue), 2005 (purple), 2004 (orange), 2003 (pink), 2002 (brown)



> The Geneva® G11 P.V.R. generates a cumulative production over 5 years superior to the other rootstocks

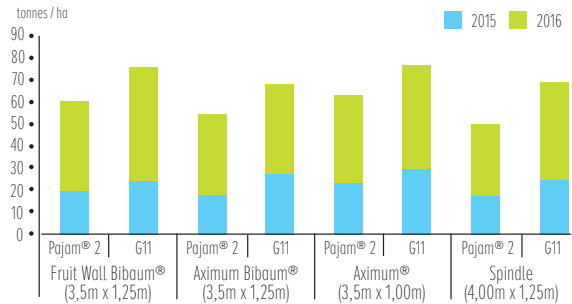
## RESULTS PUBLISHED BY CTIFL LANXADE, FRANCE, IN 2016

### Production in 3<sup>rd</sup> leaf of the variety Buckeye® Gala Simmons P.V.R. with different rootstocks and different planting systems



> Whatever the planting system of the orchard, the Geneva® G11 P.V.R. generates a superior crop than the M9 Pajam® 2 Cepiland P.V.R.

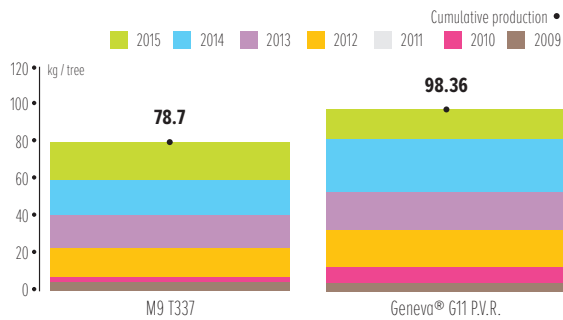
### Marketable production in tonnes / ha in 2<sup>nd</sup> and 3<sup>rd</sup> leaves for the variety Buckeye® Gala Simmons P.V.R. with different rootstocks and different planting systems



> Whatever the planting system of the orchard, the Geneva® G11 P.V.R. generates a better marketable production than the M9 Pajam® 2 Cepiland P.V.R.

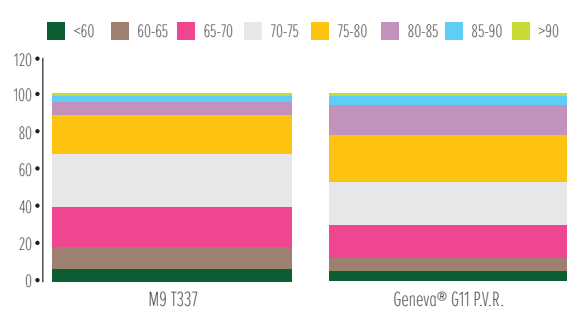
## RESULTS PUBLISHED BY WEINSBERG RESEARCH STATION, GERMANY, IN 2016

### Production for the Gala variety between 2009 and 2015



> The Geneva® G11 P.V.R. gives a higher cumulative production than the M9 T337

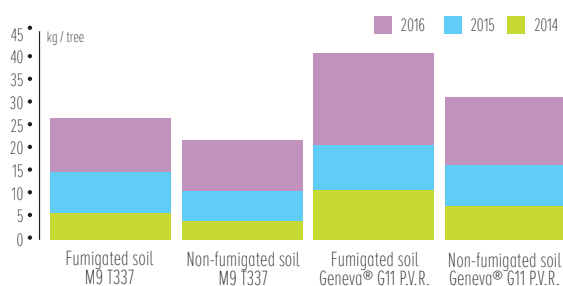
### Observation of the cumulative fruit size range in percentage for the variety Gala between 2009 and 2015



> With the variety Gala, the Geneva® G11 P.V.R. generates bigger fruit sizes (75 mm and +) than the M9 T337, even with a higher crop

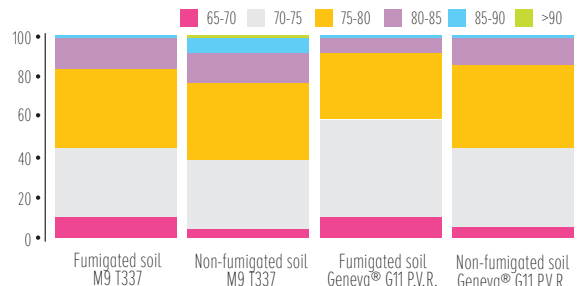
## RESULTS PUBLISHED BY LAIMBOURG RESEARCH STATION, SOUTH TYROL, ITALY, IN OCTOBER 2017

### Annual production on fumigated and non-fumigated soil for Buckeye® Gala Simmons P.V.R.



> The Geneva® G11 P.V.R. generates a higher crop than the M9 T337 whether it is planted in fumigated or non-fumigated soil

### Fruit size distribution on fumigated and non-fumigated soil for Buckeye® Gala Simmons P.V.R.



> With an additional third of production compared to the M9 T337, the Geneva® G11 P.V.R. produces mostly 70+ mm fruit sizes

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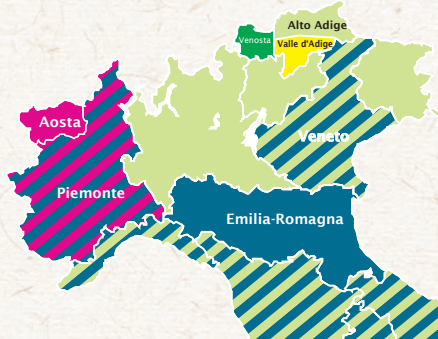
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