

DALIVAL

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New rootstock

GENEVA® G11 P.V.R.

CHARACTERISTICS



CROSS M26 X ROBUSTA 5

- BREEDER: CORNELL UNIVERSITY, USA
- EDITOR: EFTR

PRODUCTION LEVEL 10 TO 15% HIGHER THAN M9	BEST FRUIT SIZE observed in most trials
TOLERANT TO FIREBLIGHT	TOLERANT TO PHYTOPHTHORA
VERY GOOD REPLANTING BEHAVIOUR	LESS SUSCEPTIBLE TO FROST THAN M9
FEW OR NO BURKNOTS	FEW OR NO SUCKERS



Visit our Youtube channel to watch rootstock trials and testimonials



Comparison of 2 adjacent rows of trees in 2nd leaf in the same Scilate orchard in Germany (same plantation year, 3rd generation of orchard). The red line locates the 3rd trellising wire and clearly shows the difference in growth between the 2 rootstocks.



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.

EXPERIMENTAL RESULTS ON THE ROOTSTOCK GENEVA® G11 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.

- 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.

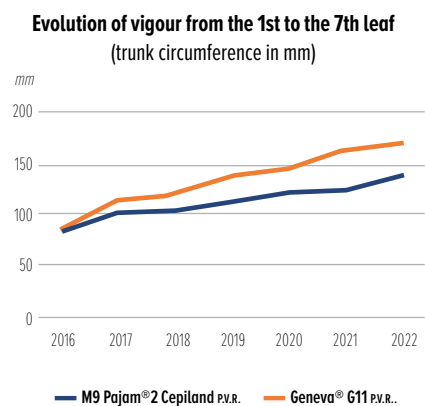
The emergence of new problematics has led to new expectations:

- 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.

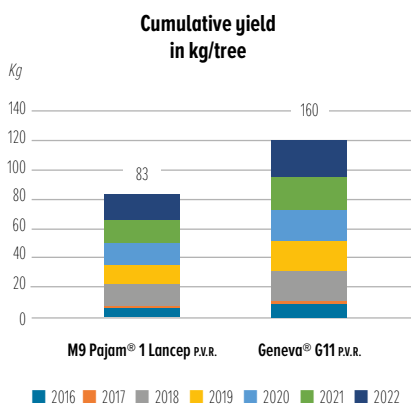
The rootstock Geneva® G11 P.V.R. has been studied for some fifteen years by all the European research stations. To show you the advantages of this rootstock, we have compiled the results from several stations.

VIGOUR, PRODUCTIVITY AND FRUIT SIZES

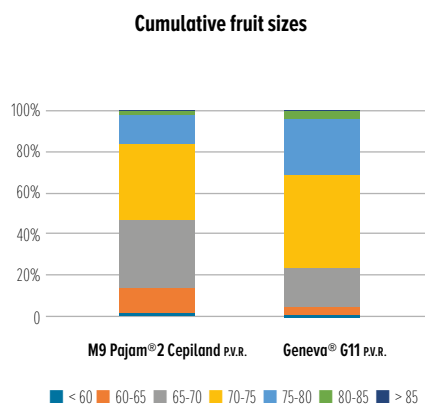
RESULTS FROM IFO, FRANCE - VARIETY GALA - (clone Brookfield® Gala Baigent P.V.R.) - PLANTATION 2015



Under identical soil conditions, Geneva® G11 P.V.R. is more vigorous than M9 Pajam® 2 Cepiland P.V.R.

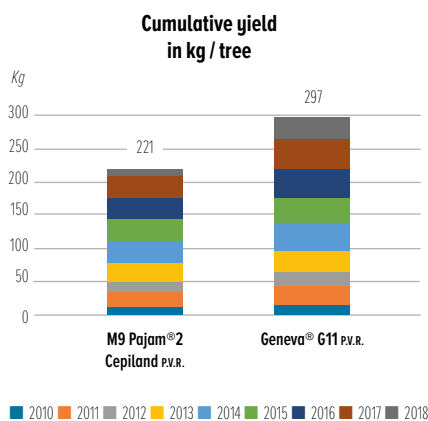


Geneva® G11 P.V.R. brings every year a larger crop load.



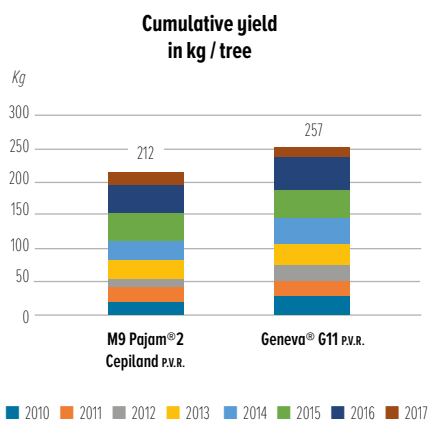
Geneva® G11 P.V.R. also produces larger fruit sizes.

RESULTS FROM IFO, FRANCE - VARIETY BRAEBURN (clone Aporo® Mariri Red P.V.R.) - PLANTATION 2008

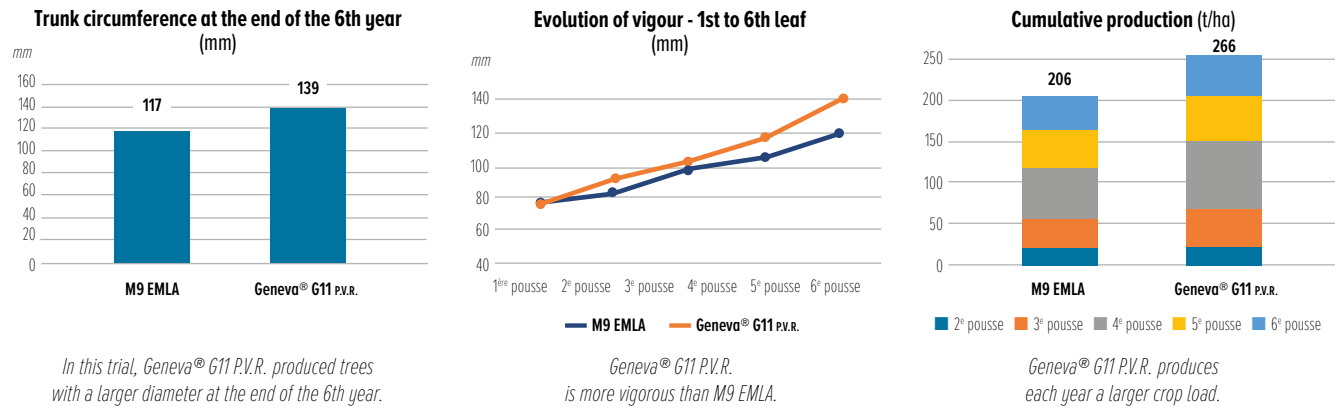


As with Gala, with Braeburn and Scifresh, Geneva® G11 P.V.R. produces higher yields every year.

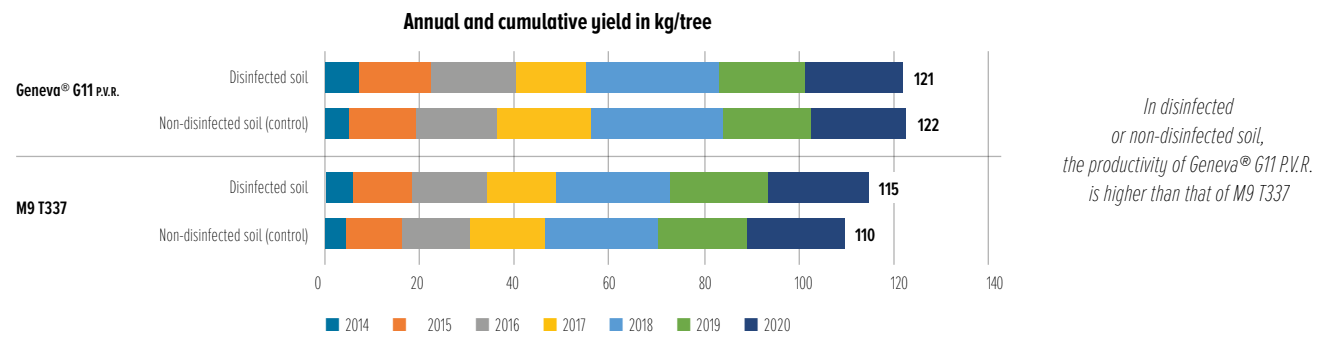
RESULTS FROM IFO, FRANCE - VARIETY SCIFRESH P.V.R. - PLANTATION 2008



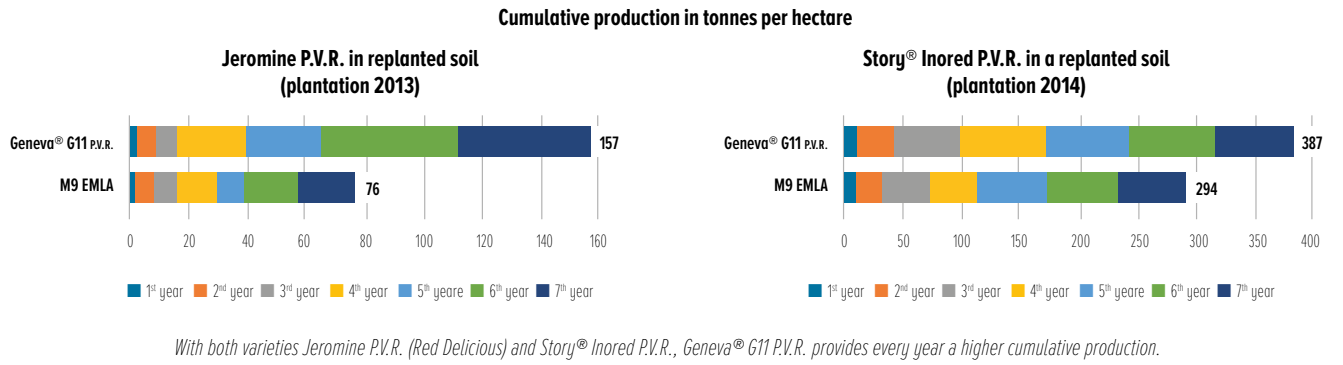
RESULTS FROM CTIFL LA MORINIÈRE, FRANCE - VARIETY DALINETTE P.V.R. - PLANTATION 2015



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

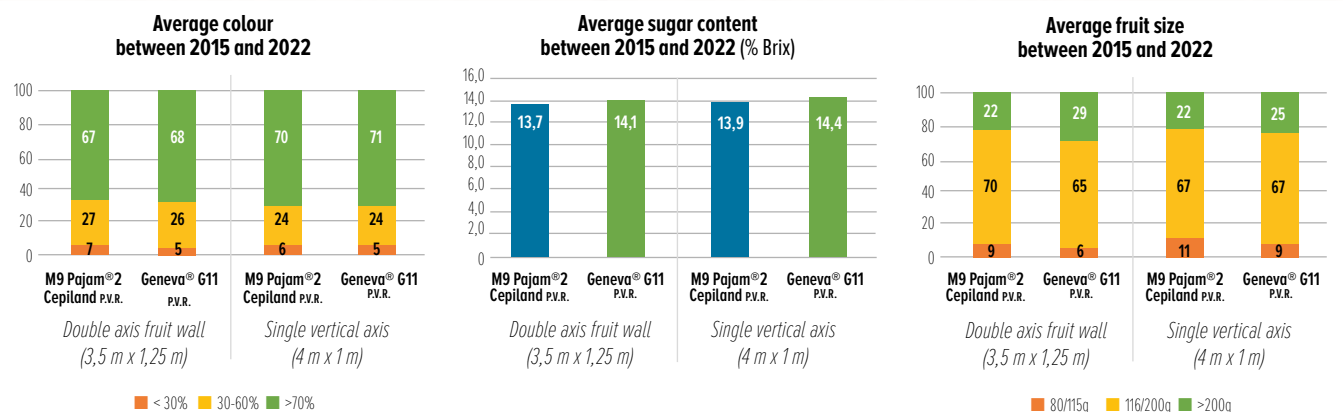


RESULTS FROM IRTA MAS BADIA - SPAIN



SUGAR LEVEL

RESULTS FROM CTIFL LANXADE - VARIETY ROSY GLOW P.V.R. - PLANTATION 2014

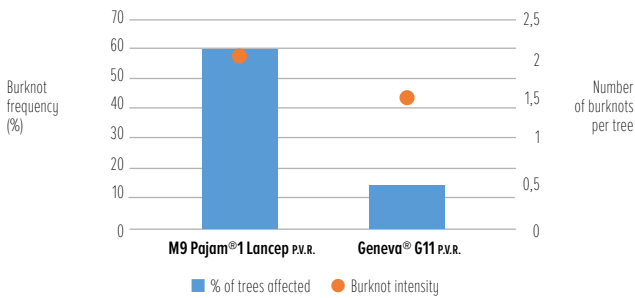


BURKNOTS AND SUCKERS

In the orchard, trees planted on Geneva® G11 P.V.R. develop less suckers and burknots, which facilitates weed and aphid control.

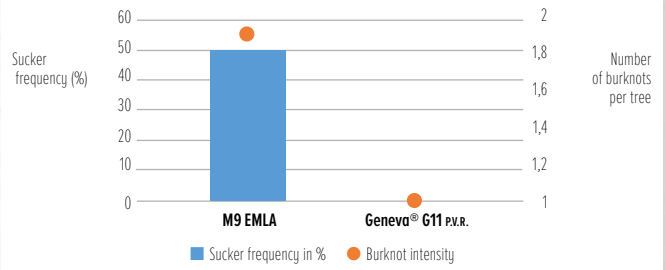
RESULTS FROM SEFRA, FRANCE - VARIETY DALINETTE P.V.R.

Susceptibility to burknot (% of trees affected and intensity) at the end of the first year



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

Sucker frequency in % and observation of burknots (1 = no burknot and 5 = rootstock surrounded by burknots) at the end of the second year



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.

The German experimental station at Weinsberg carried out this exercise for the varieties Pinova and Gala between 2009 and 2015,

based on prices in week 16 of 2016.

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.

RESULTS FROM LVWO WEINSBERG, GERMANY - VARIETIES GALA AND PINOVA - PLANTATION 2009

		< 60	60 /65	65 /70	70 /75	75 /80	80 /85	85 /90	> 90
Price Gala week 22 / 2016 in centimes / kg	Gala	15	45	58	67	75	75	45	15
Yield in kg per tree	M9 T337	5,7	9,4	16,9	22,1	16,8	6,3	0,9	0,4
	Geneva® G11 P.V.R.	4,3	7,8	17,6	22,9	24,5	16,8	3,9	0,5

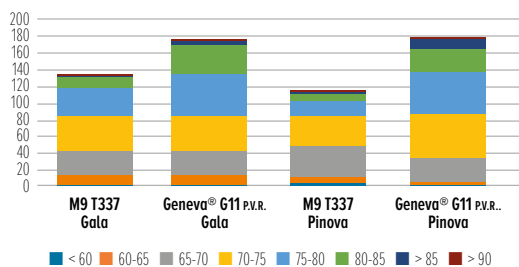
		< 60	60 /65	65 /70	70 /75	75 /80	80 /85	85 /90	> 90
Price Gala week 22 / 2016 in centimes / kg	Pinova	15	15	50	61	65	65	60	35
Yield in kg per tree	M9 T337	9,4	15,4	26,1	21,8	9,7	5,2	1,6	0,4
	Geneva® G11 P.V.R.	5,5	9,3	20,5	31,1	26,9	15,7	6,4	1,6

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

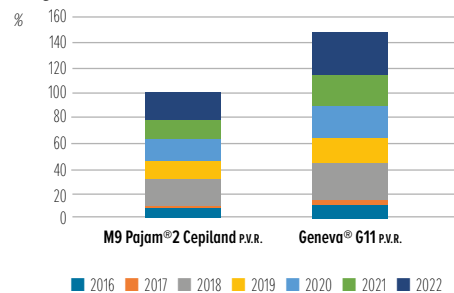
		< 60	60 /65	65 /70	70 /75	75 /80	80 /85	> 85
Bin price	€/kg	0,20	0,25	0,30	0,42	0,52	0,60	0,60

Cumulative production (kg/tree)	M9 Pajam® Cepiland	6,9	16,4	27	23,3	7,4	1,2	0,8
	Geneva® G11 P.V.R.	9,2	21,7	39,8	33,3	13,5	2,1	0,6

Cumulative turnover per hectare in k€



Percentage of estimated cumulative turnover between 2016 and 2022



In these 2 trials, the turnover per hectare is higher with Geneva® G11 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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