

# JUGALA - a clone of Gala specially suited to the UK

*Jugala is a selection of Gala developed by Valois and Davodeau Ligonnière Nurseries that offers many advantages for increasing orchard performance. These include earlier picking date, larger fruit size and easier thinning, with a colour level particularly suitable for the UK's climate.*



**J**ugala is a sport of Mondial® Gala Mitchgla. It was found in Moissac, South-West France, and first drew attention with its superior colour level.

It was then quickly realised that this selection showed advanced maturity and observations showed that Jugala's fruit size was slightly larger, and it was easier to thin than other clones of Gala. These results were repeated in successive years in experimental orchards.

## Picking date earlier by five to seven days

Jugala is earlier than Mondial Gala® Mitchgla by five to seven days, depending on the orchard's location. This is indicated by its starch level reversing earlier. The earlier ripening allows growers not only to start marketing mature apples with good sugar level earlier in the season, but also to spread the picking season, beginning earlier than other selections of Gala, and before Conference pears.

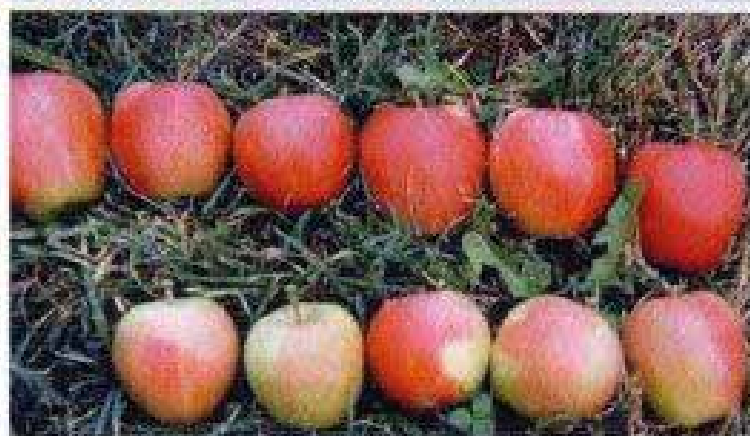
In the Loire Valley area, in the past three years, many fruit growers who grow striped

clones of Gala especially, chose to plant both Brookfield® Baigant and Jugala to spread the picking season.

## Easier thinning

Jugala demonstrates some very interesting characteristics with regard to thinning. Due to technical and economic constraints, thinning has become a difficult issue in the orchard - every fruit grower is trying to decrease thinning costs generated by Gala orchards. It was proved, by observing Jugala during fruit formation, that the rate of fruit-set in the clusters was significantly lower. The number of apples per cluster being lower, the cell division and size rapidly improve.

In addition, the productivity is equal to the other clones of Gala, as shown by the results published by the research station at La Morinière, France, according to which the difference in the production must be correlated with the vegetative growth of the trees, since Jugala has a lower vigour.



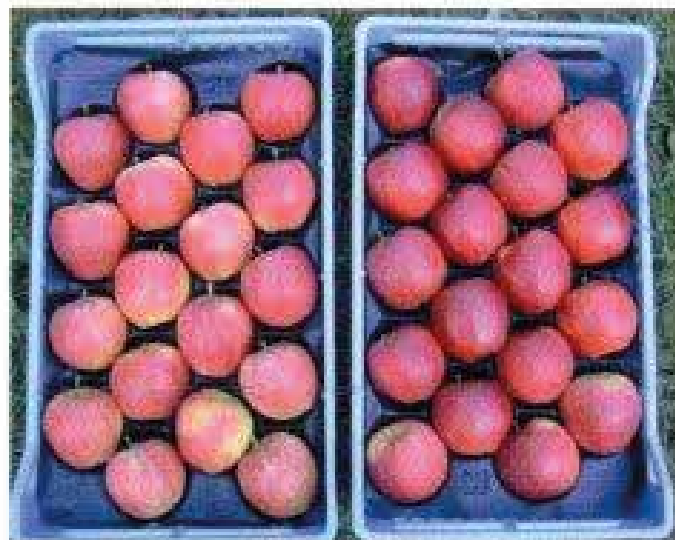
Starch reversion on fruit picked in the Loire Valley, in the same orchard, from trees of the same age and on the same rootstock. (Top row Jugala, bottom row Mitchgla).

## Larger fruit size

In relation to easier thinning, the experimental orchards in several locations in Europe showed that the fruit size of Jugala is larger (2 to 5mm

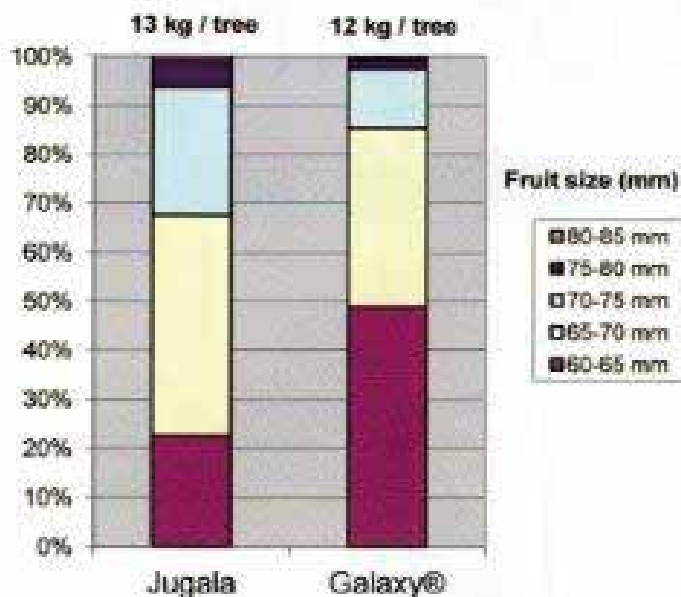
more, depending on the crop load).

It greatly facilitates chemical and hand thinning and generates substantial savings for the fruit grower.



Comparison of Mondial Gala® Mitchgla and Jugala (right), picked in the Loire Valley, in the same orchard, from trees of the same age and on the same rootstock.

### Grading results of two clones of Gala (harvest 2010) - planted 2007



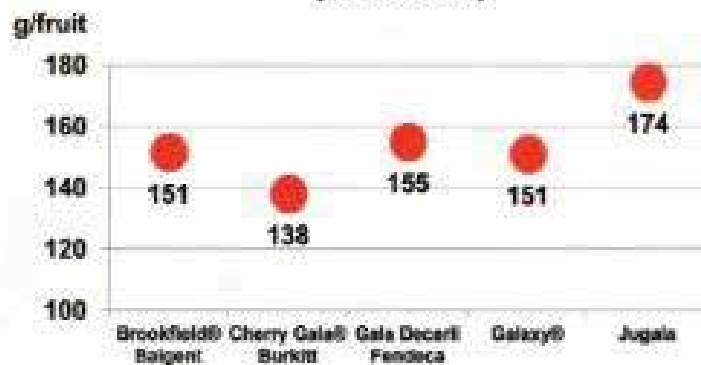
### Good colour level

While the fruit is typically stripey, Jugala's colour intensity is also very good and is one of the best selections currently available.

Much of North-Western

Europe is suitable for growing Jugala as well as some mountainous areas such as the Alps, in areas where Galaxy® or Annagio have good colour, Jugala is particularly well-suited to UK conditions. ★

### Average weight of several Gala mutations (harvest 2009)



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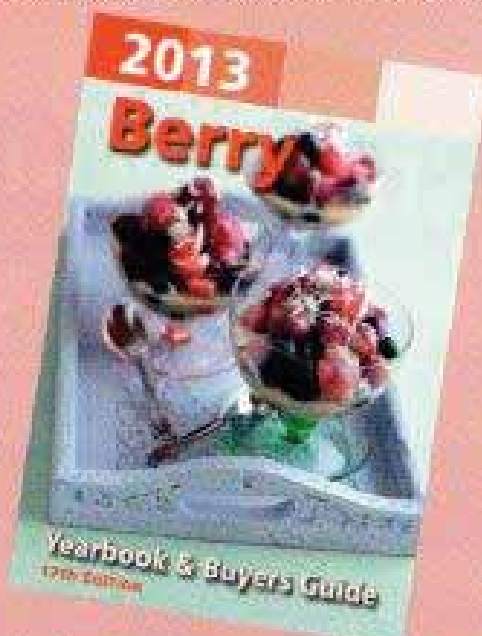
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