



Growing JOLI™

Welcome to JOLI™, our newest apple variety! JOLI™ is a large, vibrant red apple, overflowing with juice - perfect for sharing. Its bold appearance and balanced sweetness has consistently wowed consumers across the globe (ranking it closest to their ideal apple in blind taste tests).

JOLI™ (PREMA019) has premium parentage - including Scifresh (JAZZ™), Sciearly (PACIFIC BEAUTY™), Royal Gala, and Fiesta - and has great growing qualities.

Backed by T&G's integrated structure and investment, JOLI™ is poised to become a new driver of growth in premium apples and a firm favourite among consumers.



Growing Characteristics

To date, JOLI™ has shown high vigour from 1st through to 4th leaf trees. This doesn't mean that it's a large tree out of the nursery. However, once planted out we have seen high vigour, which has been beneficial in filling the canopy. Crop load has been a great tool to control the vigour, whilst being cautious not to overcrop. Once the spur density builds from 4th or 5th leaf, with appropriate crop loads, JOLI™, on an M9 rootstock, settles and sits in a healthy vigour range with good renewal growth.

Growing System / Tree training

T&G's test site is successfully growing JOLI™ on 6 different growing systems.

Slender spindle / 2D / V trellis / Twin leader / Four Leaders & FOPS.



The variety is producing high quality fruit on all growing systems. The key learnings are that to ensure fruit set, the branches need to be tied down early, to or below horizontal. We have seen very good fruit set on the vertical wood in the double leader system. In addition JOLI™ grafts well and fills the canopy quickly.

Pollination / Full Bloom

JOLI™ pollen is male sterile and won't pollinate other varieties. It is strongly advised to plant 5% pollinators within the block. JOLI™ is an early flowering variety with full bloom 4 – 7 days earlier than Envy, 2024 NZ timing for full bloom was 28th September on 8th leaf trees.

Chemical Thinning



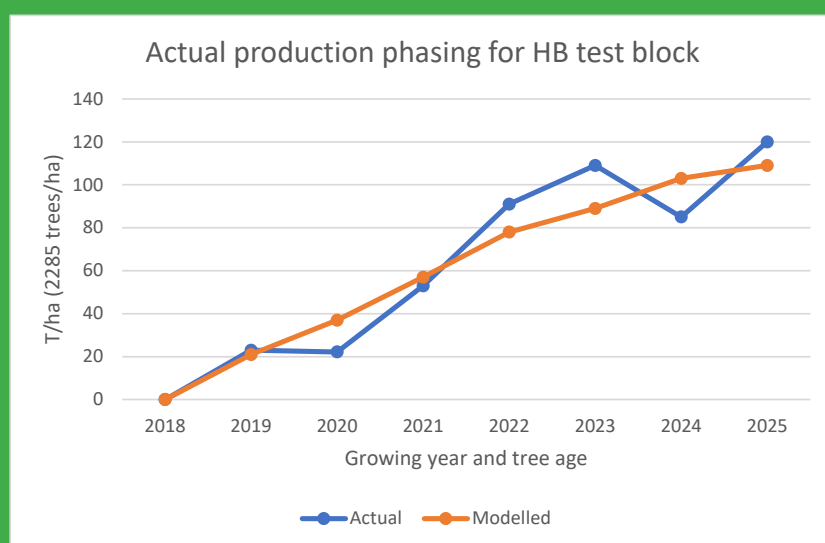
T&G have not done any chemical thinning trials to date. On the fruit set work we have completed, 91% of spurs on the tree have set fruit with 68% of those sites being singles. JOLI™ does have a tendency to naturally drop fruitlets in the 8-16mm diameter range. With this drop, and given JOLI's™ tendency to set in singles, hand thinning has been quick and easy, so chemical thinning trials haven't been prioritised.

Crop Loading / Thinning

Biannual bearing has not yet been observed on our trial blocks. Bloom is consistently strong, with minimal to nil blind wood and strong spur development throughout the tree. Vigour has proven to be the biggest influence on fruit set, with light set seen on vigorous 2nd and 3rd leaf trees. JOLI™ fruit sizes quickly and leads to early thinning due to cluster densities. Late thinning could result in weakened stems and misshapen fruit.

Nutrition

We are in the early stages of looking at the nutrition requirements for JOLI™. We recommend running a high calcium spray program (19kg to 22kg C active) due to large fruit size (and also given JOLI's™ parentage).



Mature Canopy

The graph shows the production by tree age through to 8th leaf, on our M9 test block in Hastings, NZ. Summer pruning was done to maximise colour and pickout. The reduction in 2024 yield was in line with a

smaller fruit size harvested elsewhere in the region. The trees are now settled and we have harvested over 100T per ha for 3 of the last 4 years. The 2025 harvest was completed in 2 picks.

Fruit Drop

Fruit drop at harvest is a trait of JOLI™. Research has shown that it's the abscission layer weakening when higher starch levels start to occur. To date, we have observed up to 16% fruit drop during harvest and without Stop Drop tools. We now recommend applications of ANA starting

7 to 10 days pre harvest. 2025 Stop Drop work showed positive results although there was a lower percentage of drop in 2025 season.



Harvest

For 2025, in 8th leaf trees, all fruit was harvested across two picks. The 4th leaf trees were harvested in three picks. Colour area comes ahead of maturity and as the trees age we have seen the colour intensity increase. Fruit not picked in time will start to go greasy, therefore good light management to maximise colour is important.

New Zealand harvest dates:
Gisborne 10th March, Hawkes Bay 12th & Nelson 22nd of March.

Growing Recommendations

Dormancy breakers – We strongly recommend the use of budbreakers to condense bloom. Due to the vigorous nature of JOLI™ there will be a lot of one year old wood in the first 4 seasons. Condensing bloom is a vital tool to help even out the crop for harvest. Orchards in HB have had good results with Waikin

and are looking at other products moving forward.

Fruit Set – We strongly recommend targeting a Regalis or equivalent at full bloom to improve fruit set. Please see R&D work for trial results. Whilst the trees are in their high vigour growth phase, we have seen light fruit set in 2nd and 3rd leaf trees.

Setting fruit is vital to help settle vigour and to help set fruiting buds. It appears that the JOLI™ variety fruit set gets better as the trees mature. However it is still early days for those sites with high vigour.

Stop Drop – We are continuing our trial work in this area. However, 2 applications of NAA starting 10 days pre harvest at 5ppm, is strongly recommended to reduce fruit drop. Research to date demonstrates that JOLI™ is prone to drop at 4 SPI. Whilst NAA will reduce drop, good harvest management and tight maturity monitoring is vital.

For any technical queries on JOLI™, please email
growingenquiries@tandg.global

Disclaimer

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- a. on the basis of ENZIL's current learnings from its test block of Joli™ apples, in Hawke's Bay, New Zealand. Recommendations made in this booklet may change over time once larger hectares of plantings reach maturity, more information is known and further research and development is carried out.
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