



Sunny® Treated and Untreated fruit at harvest. Note general increase in fruit size and fuller or "less necky" appearance of treated fruit.



Sunny® Treated and Untreated shoot growth. The position of the blue ribbon marks the growth tip at the time of application.



Registered to:



**SUMITOMO CHEMICAL**

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# Avocado fruit sizing is finally here!

Distributed in New Zealand by:

**Gro-Chem**

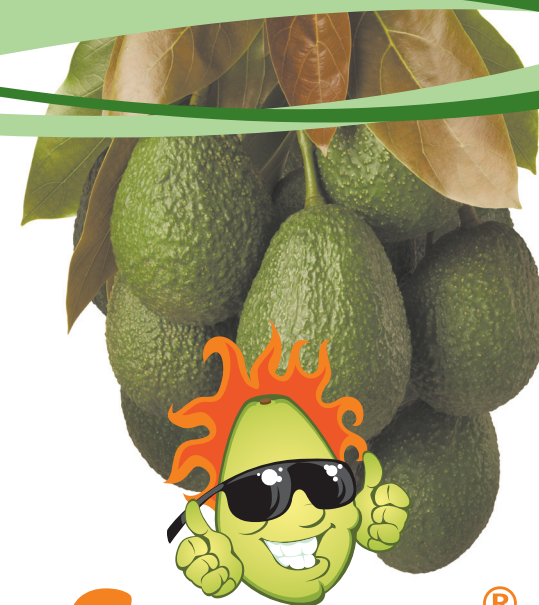
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**Sunny**®  
Plant Growth Regulator

Proven in Australia and now  
available in New Zealand



A plant growth regulator for use on avocados to increase fruit size and reduce vegetative growth

Sunny® is a plant growth regulator successfully used by progressive Avocado growers around the world to improve orchard productivity and fruit quality.

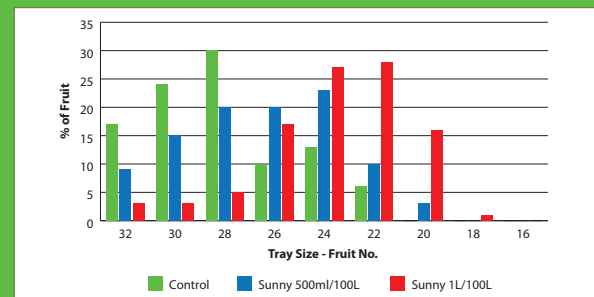
The key benefits of Sunny® are:

- Increased average fruit size
- Reduced branch length of spring flush

Sunny® is applied as a foliar spray to healthy trees at flowering, targeting the start of the spring flush. It is absorbed by the trees soft tissue comprising leaves, stems and flowers and is translocated upwards and outwards, via the transpiration flow in the xylem.

Sunny® acts in the meristem (growing tip) to inhibit gibberellins that promote shoot growth, changing the balance in allocation of nutrients in favour of the buds, flowers and fruit. This results in larger fruit and a reduction in shoot length in the spring flush.

Sunny® affects only the spring flush it is applied to and does not continue to impact the growth of the tree in later flushes.



### Northland Trial 2009

Fruit Size Distribution

Average fruit size of control 194 grams, low rate 500ml/100L 213 grams, high rate 1L/100L 250grams.

### Fruit Size

Fruit size gains due to the redirection of nutrients to the fruit vary depending on rate applied, orchard and season. New Zealand trials have demonstrated gains of between 9% and 22% or between 19g and 69g average increase in fruit weight at harvest.

### Fruit Quality

The application of Sunny® has not been found to affect fruit quality other than increased size. In Hass; fruit appear slightly less "necky" or fuller in the neck. Initial fruit set in Hass appears very round, but returns to a more normal elongated shape as the season progresses. New Zealand trials have shown no change in dry matter or Calcium or Boron content of treated fruit compared to untreated fruit at harvest.

### Flush Restriction

The length of the flush that Sunny® is applied to is restricted. Internode (distance between leaves) is shorter and branches appear more "rosette". In New Zealand trials, shoots treated at flowering were, on average, 12-30% shorter compared to untreated shoots one month after application and 20-50% shorter four months after application. Flush restriction only affects the flush that Sunny® is applied to. Over time, this affect may lead to more compact trees and a reduced pruning requirement.

### Withholding Period

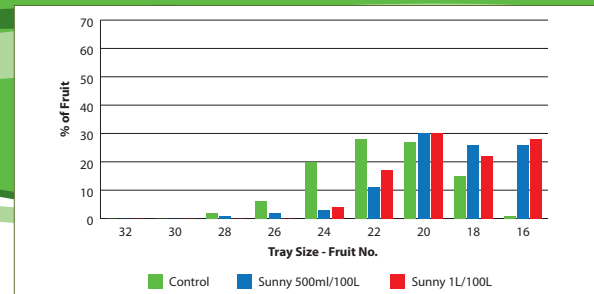
Do not harvest fruit for 14 days after applying Sunny®, that is being sold in New Zealand and Australia. For international markets without an MRL, nil detectable residues are required. To achieve this will require last seasons fruit to be harvested before application at flowering. Check with your packhouse regarding export destinations.

### Application

- The application of Sunny® does not require high water volumes, but does require good coverage of new growth and flowers.
- Apply evenly to the outer canopy to the point of wetness (not runoff). Penetration into the canopy is not required. Spray set up should be altered from those used for insecticide or fungicide applications (see label for more detail).
- A non-ionic surfactant such as Spray Aid™ is recommended.
- Do not apply in alkaline water, if water pH exceeds 6.0 add a buffering agent such as Buff-It™ to reduce pH to between 4.5 - 5.5.
- Do not apply to stressed or diseased trees. If trees have lost more than 15% of leaf at application timing or have Phytophthora, do not apply Sunny®.

SEE LABEL FOR FULL DIRECTIONS AND RATES

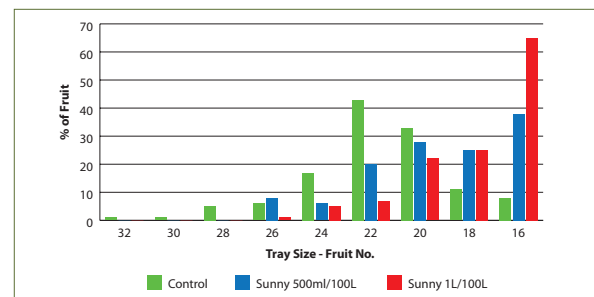
Label available from: [www.grochem.co.nz](http://www.grochem.co.nz)



### Bay of Plenty Trial 2009

Fruit Size Distribution

Average fruit size of control 281 grams, low rate 500ml/100L 325 grams, high rate 1L/100L 330 grams.



### Bay of Plenty Trial 2008

Fruit Size Distribution

Average fruit size of control 283 grams, low rate 500ml/100L 320 grams, high rate 1L/100L 352 grams.