

Citrus

InCa™ is an advanced foliar spray containing our patented CaT™ technology. This optimises calcium mobility for improved yield and shelf life of citrus.



Benefits of InCa

- ✓ Increases marketable yield
- ✓ Improves crop quality
- ✓ Reduces creasing and other calcium disorders
- ✓ Extends fruit storage and shelf life
- ✓ Compatible with other agrochemical foliar sprays
- ✓ Application flexibility due to reduced risk of scorch

Nutrient content of InCa*

Nutrient	% w/w	g/L
Ca	9.5	133
CaO equiv	13	182
N	8	112
Zn	0.8	11.2

*Formulations can vary by region.

CaT™ Calcium mobility technology

Calcium is an essential plant nutrient, principally taken up with water. It is vital for cell wall and membrane structure. CaT is designed to mobilise calcium. It stimulates selective ion transport channels in membranes, increasing the calcium concentration within cells and improving localised calcium movement. This efficient technology means you achieve results with a low application rate.

CaT technology increases marketable yield in citrus

InCa, applied 6-8 times at 15-21 days intervals, increased citrus marketable yield in a Thailand field trial. Various InCa rates were compared to two competitor brands and a control. The control group had 70% marketable fruits, compared to 96% in the InCa treated group (3 L/ha) (Figure 1).

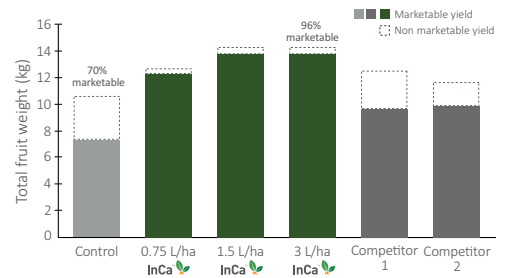


Figure 1: Field trial in Thailand showing total and marketable fruit weight for citrus.

Two rates of a CaT technology product were applied nine times from flowering to sweet oranges (var. Fukumoto) in a Spanish trial. The treatment containing CaT at 3L/ha significantly ($P < 0.1$) increased fruit number compared to the control, increasing marketable yield by 32% (Figure 2).

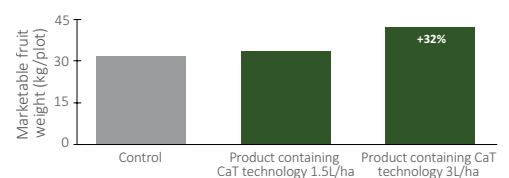


Figure 2: Field trial in Spain showing marketable fruit weight for sweet oranges (var. Fukumoto).

Product containing CaT technology prolongs quality during fruit storage

The Spanish trial also assessed sweet orange's quality post-harvest, after 14 days of storage. Fruits from trees that received the CaT technology treatment, and a control were weighed after two weeks of harvesting. Fruits harvested from CaT treated trees lost less weight compared to the control.

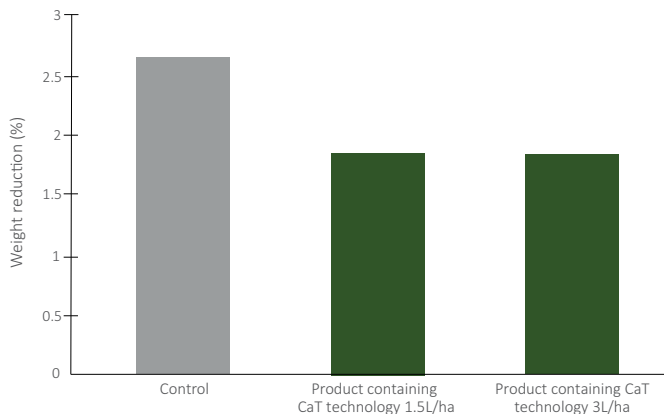


Figure 3: Trial in Spain showing weight reduction in sweet oranges after 14 days of storage.

InCa reduces creasing in sweet oranges

In a trial conducted in South Africa, sweet oranges (var. Turkey) were treated with a combination of InCa (2 L/ha) and calcium supplement and compared to calcium supplement alone and a control. Treatments were applied every 14 days from flowering with a total of 3 applications. A total of 500 fruits were assessed for creasing damage. In trees treated with the combination of calcium and InCa, total damage by crease was reduced by 13%.

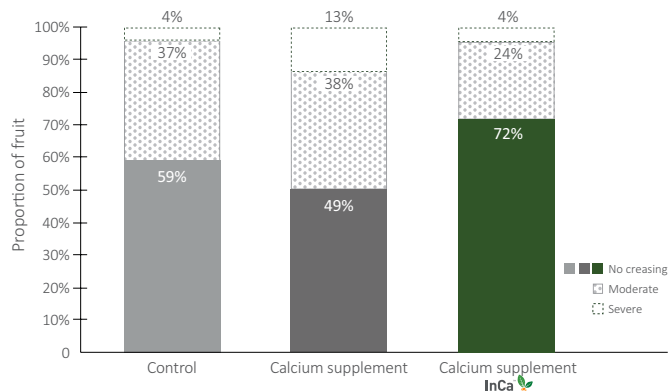


Figure 4: A trial in South Africa showing creasing damage in sweet oranges.



Directions for use

Shake well before use. Applying InCa in a minimum 200 litres of water per hectare is recommended. The table below indicates the application rate and timing for citrus. For more detailed advice, consult your agronomist.

Crop	Rate	Spray timing
Citrus	1-3 L/ha	Every every 2-3 weeks starting from flowering

Tank mix compatibility

InCa is compatible with most pesticides, adjuvants and foliar fertilisers. Mixing with products containing high levels of sulphate or phosphate may cause precipitation. Always conduct a jar test before use to ensure physical compatibility.



Find more information on our CaT products at:

- www.plantimpact.com/en-gb
- info@plantimpact.com
- www.linkedin.com/company/plant-impact/



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