

# Strawberries

**Industry:** Hydroponic Strawberries  
**Client:** Windermere Berry Farm  
**Location:** Wanganui, New Zealand  
**Results:** 23% improved yield  
**Estimated ROI:** <4 months



## Grower Challenge:

Windemere Berry Farms were looking for chemical free alternatives to improve crop response and performance.

## Growing Environment:

Windermere Berry Farm, a family owned located in Wanganui New Zealand, grows strawberries inside tunnel houses in substrate bags on table tops, as well as raspberries, blackberries and blueberries in pots, across a total of 7 ha of covered crops. The plants are fertigated hydroponically multiple times per day using the Autogrow system.

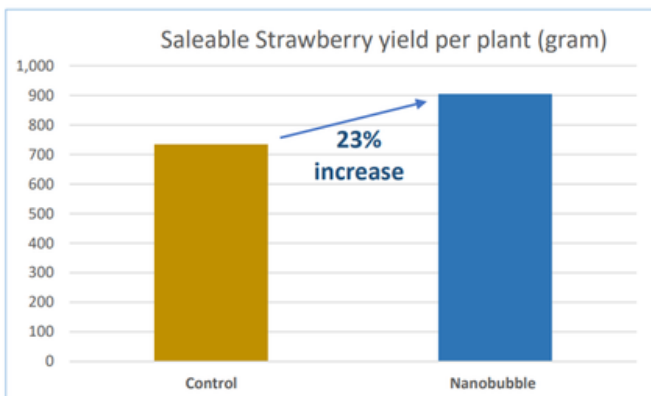
## Nanobubble Approach:

Windermere Berry Farm used two separate fertigation systems, utilising 2 separate water reserve tanks across 34 growing tunnels, to ascertain the improvement in yield using nanobubbles on strawberries grown hydroponically; a control (tunnels 1 - 16, and without nanobubble water) was compared to the treatment (tunnels 17 - 34, and with nanobubble water).

The nanobubble system was installed and operated from 3 weeks after the season harvest began and finished a month before the harvest finished (from 11th Oct 2020 to 9th May 2021). The nanobubble system was in operation for 79% of the harvest period.

## Nanobubble Results:

	Number of plants	Saleable Strawberry yield	Yield per plant
Control	85,824	63,079 kg	735 g
<b>Nanobubble Agritech</b>	104,832	94,389 kg	905 g
<b>% improvement</b>			<b>23.13%</b>



*"...plants grown with oxygen nanobubble water were bigger, had more vigour, and were less prone to attacks from pests. The 23% increase in yield exceeded our initial expectations and we are very happy with the result."*

**Tony Boswell,**  
 Managing Director Windermere Berry Farm,  
 Board of Directors NZ Strawberry Growers Association

Oxygen nanobubbles elevate and maintain supersaturated dissolved oxygen levels very efficiently which helps reduce disease & enhance root mass, increasing the plant's nutrient uptake and conversion efficiency. To learn how this technology can help improve your plant health and increase yield and profitability, without using any chemicals, get in touch with Nanobubble Agritech today.