

## Case Study: CO2 Delivery Solutions Effect on Microgreens

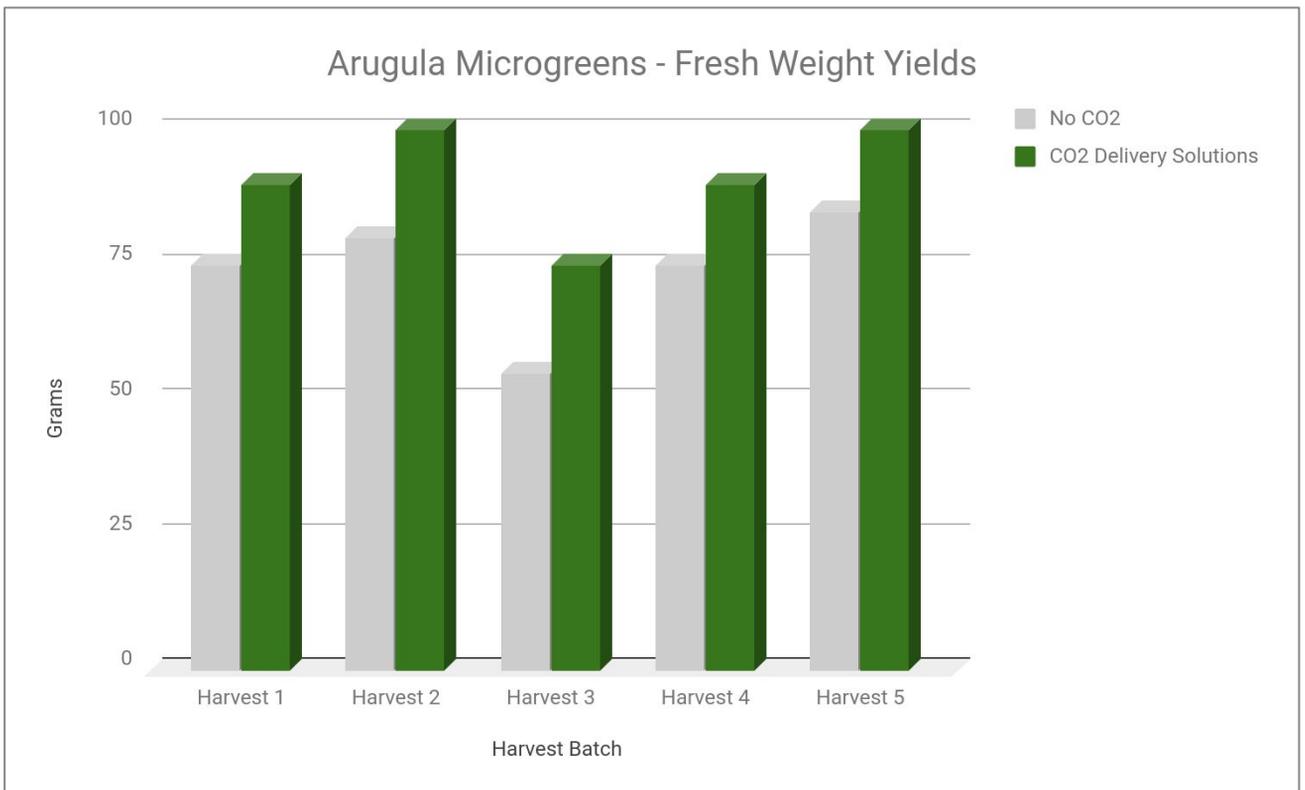
Indoor use of CO2 gassing has enhanced plant yields for decades. However, over half of the CO2 gas is typically lost through leaks in indoor operations, and the vast majority of greenhouses cannot use CO2 since they require ventilation through which nearly all the CO2 in the air escapes. Of course outdoor growers cannot gas CO2 at all. CO2 GRO's patented **CO2 Delivery Solutions** enables growers both indoor and outdoor to consistently deliver optimal amounts of CO2 to their plants via an aqueous CO2 solution, resulting in **higher yields, shorter grow cycle times, safely and profitably** as shown in numerous case studies.

### Results:

- **8-25%** increase in biomass yield
- Fuller / thicker crop growth

### Microgreens Demo:

Microgreens are nutrient packed miniature versions of normal vegetables. They have gained massive popularity as both a way to add powerful flavour and as garnishes. The appeal for growers is the incredibly short growth period that can be reduced to just a few days for some crops. The addition of aqueous CO2 has shown to produce much higher yields even for crops with such short growth cycles.



All results shown were observed and documented in demonstrations of CO2 Delivery Solutions. Results may vary according to crop and growing conditions. CO2 Delivery Solutions is not intended for use as a pesticide or herbicide. CO2 Delivery Solutions is sold as a novel method for delivery of CO2 to plants.

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Greenhouse overhead boom.

## Ontario Microgreens Demo:

All microgreen demonstrations were performed in Lynden, Ontario. Demonstrations consisted of tables containing 63 trays of either arugula or lettuce. All tables were misted using a greenhouse boom (depicted on the left) with either untreated water or aqueous CO<sub>2</sub> solution. Crops treated with CO<sub>2</sub> Delivery Solutions showed noticeable increases in both size and weight.



Lettuce Microgreens four days after starting aqueous CO<sub>2</sub> treatments. The bottom picture shows aqueous CO<sub>2</sub> treated lettuce and the top picture shows the untreated lettuce that was seeded the same day. The treated lettuce foliage filled its plastic cells while the untreated crop has visible soil in all cells and has only grown to about half the size.



Microgreen herb demonstration at 2 weeks. CO<sub>2</sub> Delivery Solutions treated plants are on the left, no CO<sub>2</sub> on the right. The treated plants have clearly grown substantially more than the untreated.

## About CO<sub>2</sub> GRO

CO<sub>2</sub> GRO's ("GROW") mission is to accelerate all indoor and outdoor value plant growth naturally, safely, and economically using its patented advanced CO<sub>2</sub> Delivery Solutions.

GROW's global target markets are the \$8 trillion global retail food plants market (Plunkett Mar 2017), the \$1 trillion global retail non-food plants market such as tobacco, the \$340 billion global vegetable greenhouse market with its 50 billion square feet of greenhouse space (USDA), the \$60-160 billion (2025 est.) global legal retail cannabis and hemp market (Grandview; Brinks), as well as the \$250 billion (2024 est.) global wine and grape commodity market (Mordor Intelligence).

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