

How CO2 Foliar Spray Affects Young Plants

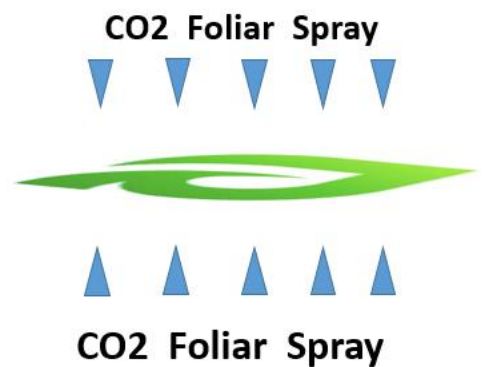
Helping Growers Increase Crop Yield / Revenues
and Lower Costs

Early Growth Stage

The first few stages of growth for plants are very important as plants are typically vulnerable to strong chemicals or overwatering. This has led to some people believing that increased CO2 levels would either not effect or cause negative effects to plants at these stages. This is false as CO2 enrichment during early growth can increase root development speed, increase growth rate, and reduce potential pathogens.

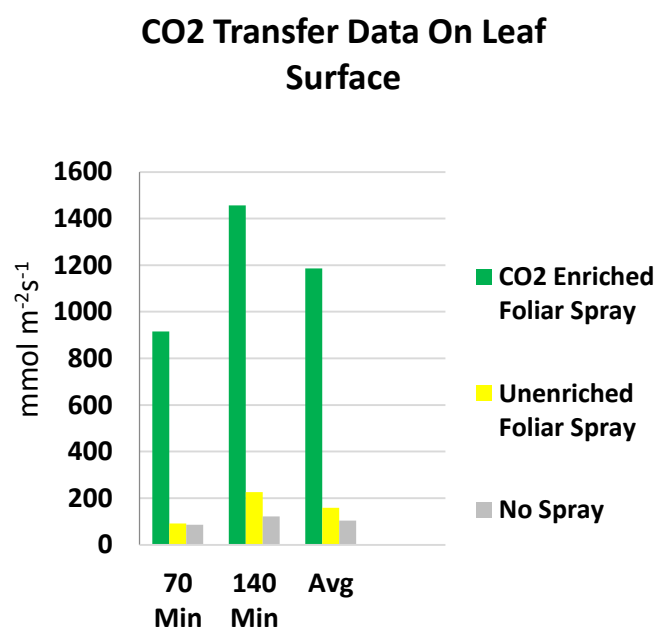
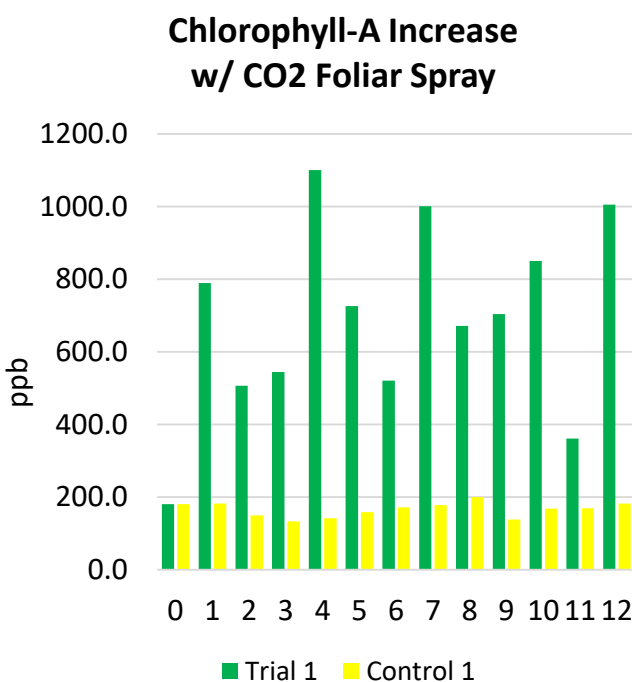
Key Features and Benefits

- Proven to significantly increase plant growth
- Both indoor and outdoor delivery capability
- Lower costs - greenhouse CO2 OPEX savings
- Easily integrated into ALL existing irrigation systems
- Negligible CO2 gas losses indoors & outdoors
- Ease of operation, simple equipment components and controls



CO2 Foliar Spray Test Results

Studies performed at St. Cloud State University, on pepper plants, have shown:



Tomato Test Results

Research performed by MSGS on Prudac varieties has shown early stage tomato plant leaf growth in tomato production using CO₂ foliar spray. Trials have shown increased overall size and a faster rate of growth as opposed to untreated plants.



Tomato Trial run on Prudac tomatoes. CO₂ treated plant is located in the centre row on the left (circled). It has the greatest growth of all the plants in this trail.

Vinca Cora treated with CO₂ foliar spray (left) and untreated (right). Plant itself looks fuller and has more branches than untreated plant. Root system is also much more developed in the treated plant.



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