

# How CO2 Foliar Spray Affects Hemp Plants

Helping Growers Increase Crop Yield / Revenue  
and Lower Cost

## Hemp Plants

Often confused with Cannabis plants due to their similar shape and family relation. Hemp is a variety of the Cannabis Sativa plant and is harvested for its fibre and edible seeds as opposed to any drug related uses like its relative. It is one of the fastest growing plants and also one of the first to be spun into usable fiber. Hemp is a very versatile plant and can be refined into a variety of different products including; paper, clothing, paint, insulation, food, biofuel, and many others.

## Key Features and Benefits

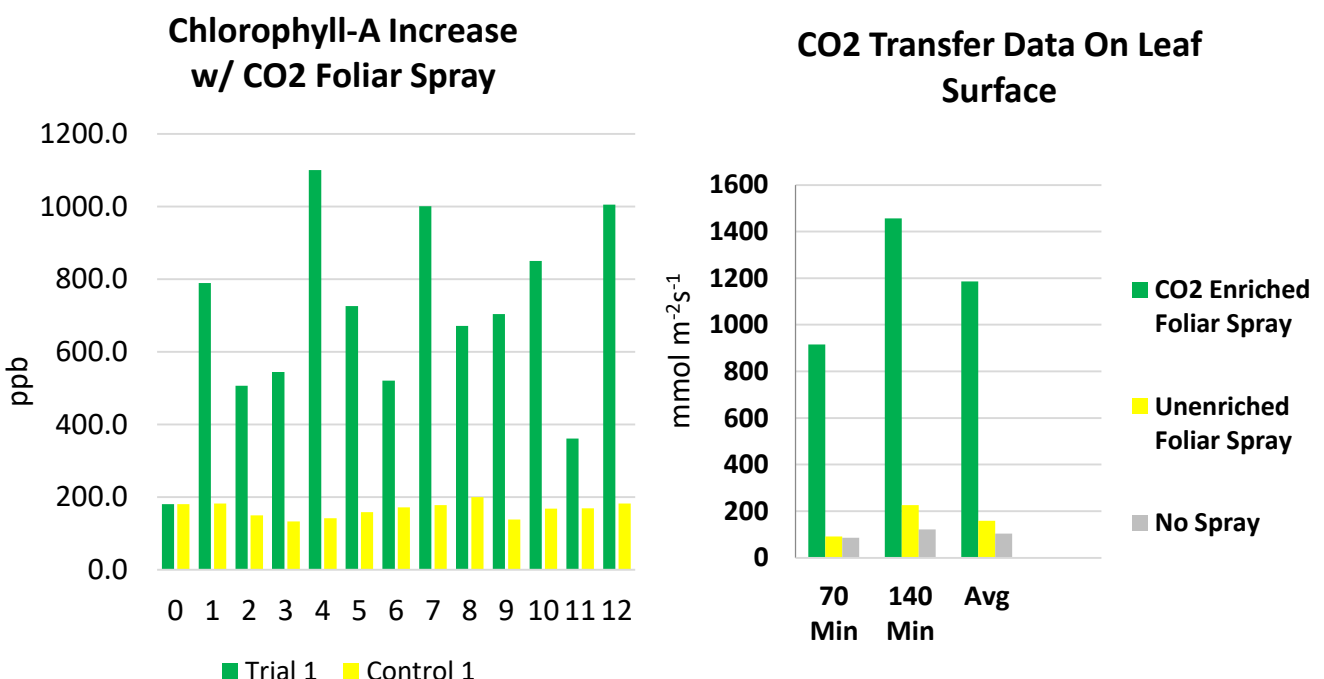
- Proven to significantly increase plant growth
- Both indoor and outdoor delivery capability
- Lower costs - greenhouse CO2 OPEX savings
- Easily integrated into ALL existing irrigation systems
- Negligible CO2 gas losses indoors & outdoors
- Ease of operation, simple equipment components and controls



ACMPR  
5 week  
Cannabis Trial

## CO2 Foliar Spray Test Results

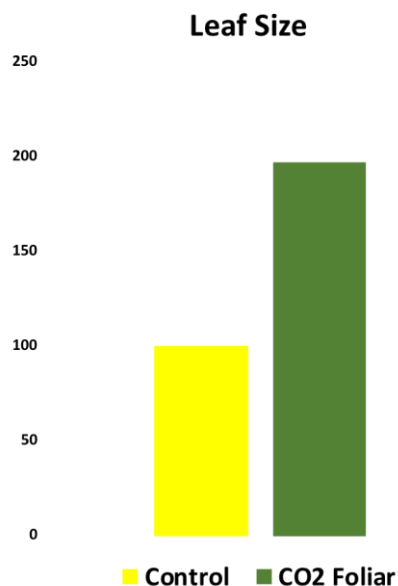
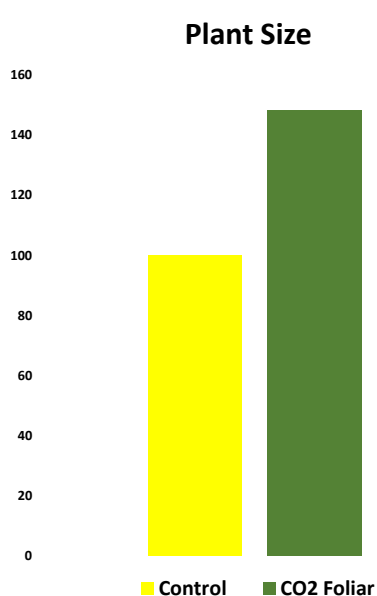
Studies performed at St. Cloud State University, on pepper plant's, have shown:



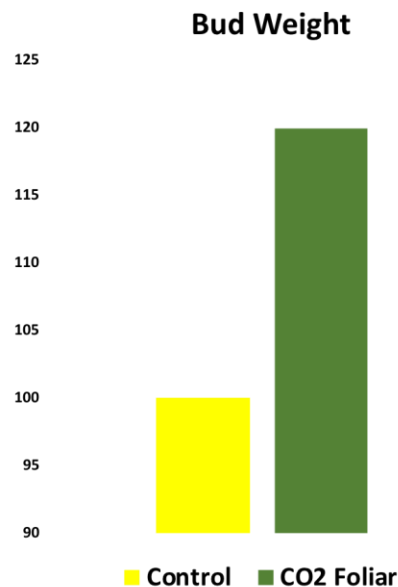
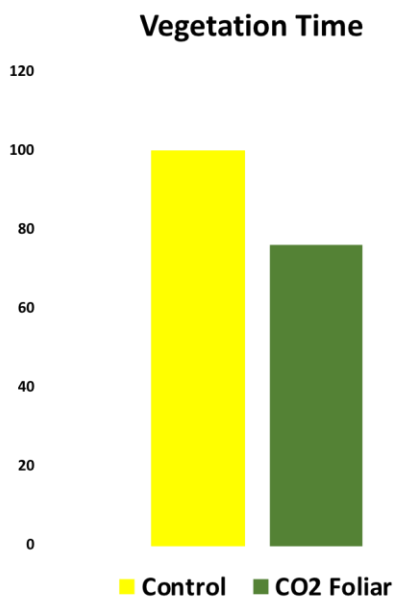
## Hemp Test Results

All results from ACMPRs in greater Toronto area. All plants were hand sprayed. The control was sprayed with normal water while the treated group was sprayed with water semi-saturated with dissolved CO2. The treated group saw the following benefits:

- Plant size increased by more than 40%
  - Leaf size nearly doubled
  - Bud weight increased by 22%



Additionally, the time the plants took to go from vegetative growth stage to bud flowering was 31.5% faster than the control. Due to the vegetative growth phase lasting 60% of the full cannabis growth cycle, there was a net 18.9% increase in plant growth rate. This points to the potential to grow one more additional indoor cannabis crop per year. Currently indoor growers can only produce 5.5 crops per year.



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