

Case Study: CO2 Foliar Spray Effects on Cannabis Growth (Indica Strain)

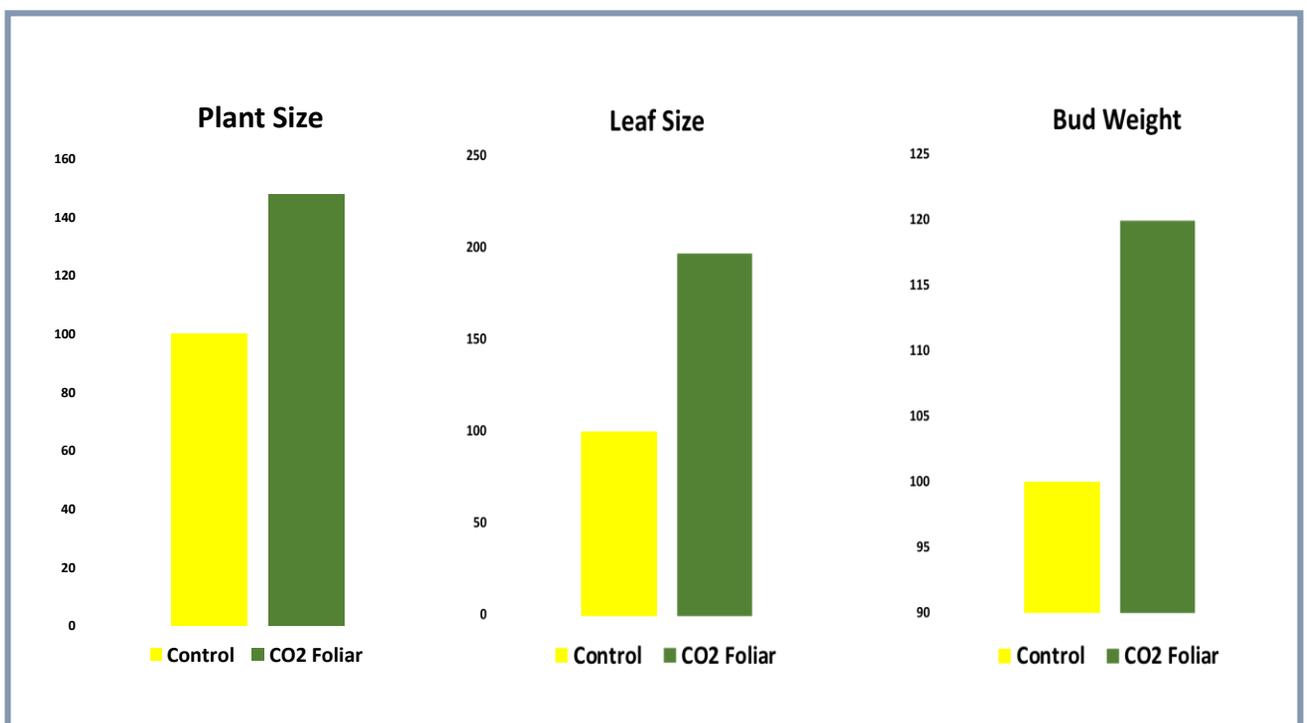
Indoor use of CO2 gassing has enhanced plant yields for over 60 years. However, over 50% of the CO2 gas is typically lost through ventilation. Current greenhouse CO2 gassing levels of up to 1500 PPM are also not ideal for worker health and safety. GRO's safer dissolved CO2 foliar spray can be used by indoor and outdoor plant growers with minimal CO2 gas lost and greater plant bioavailability resulting in higher yields as shown in this case study.

Benefits:

- 20% increase in bud weight
- 20% increase in growth speed
- 75% increase in THC levels
- Increase in CBN levels
- 90% increase in CBD levels
- Overall 60% increase in bud value

Indica Strain Results:

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. Indica bud THC and CBD levels were also analyzed by SGS Laboratories where THC levels increased by 74% and CBD levels increased by 89%.





ACMPR
5 week
Cannabis Trial

Indica Trail

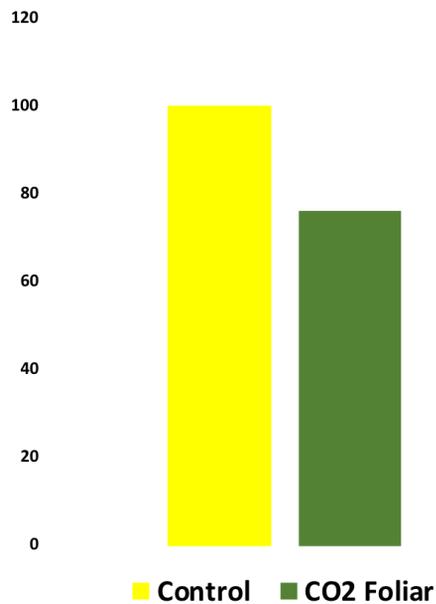
Indica Cannabis strain growth trials were performed in the Toronto area. 120 plants were sprayed with water semi-saturated with dissolved CO2 and applied with a hand spray device. As the Indica strain has larger natural leaves than most other strains, more dissolved CO2 was able to be absorbed which led to a greater increase in plant food creating and THC concentration.

About CO2 GRO

GRO's mission is to accelerate all indoor and outdoor value plant growth naturally, safely, and economically using its patented advanced CO2 foliar technologies. GRO's global target plant markets are retail food at \$8 trillion per year (Plunkett Mar 2017), retail non-food plants at an estimated \$1 trillion per year and legal retail cannabis that may reach \$50 billion per year by 2022 (Bay St Analyst estimates).

The CO2 technologies work by transferring CO2 gas into water and foliar spraying across the entire plant leaf surface area, which is a semi permeable membrane. The dissolved concentrated CO2 then penetrates a leaf's surface area naturally like nicotine naturally dissolves through human skin from a nicotine patch.

Vegetation Time



Bud THC Content

