CO2 GRO Inc. Announces Two Positive Pepper Grow Trials Using CO2 Foliar Spray Technology

written by Raj Shah | November 13, 2018

November 13, 2018 (Source) – ***The Trials Show 50% More Value versus Plants not CO2 Gassed and 20% More Value Than CO2 Gassed Plants***

Toronto based CO_2 GRO Inc. ("**GROW**") (TSX-V: GROW; OTCQB: BLONF) is pleased to announce positive value results from two pepper grow trials using its dissolving CO2 Foliar Spray technology. The first pepper trial was performed at a commercial Michigan aeroponics facility using dissolved CO_2 Foliar Spray technology versus no CO_2 gassing on a limited number of pepper plants. The second trial at St. Cloud State University was overseen by Dr. Matt Julius. He used dissolved CO_2 foliar spray versus both a pepper plant control group that received CO_2 gassing at 800 PPM (typical greenhouse level) and a no CO_2 gassing pepper plant control group.

POSITIVE YIELD AND RIPENING RESULTS

Control Plants	Base Line Fruit Value
Control Plants 800 PPM CO2 gassed	Base Line Fruit Value Comparison plus 30%
	(20% more fruit yield and grown 10% faster)

Dissolved CO2 Sprayed Plants	Base Line Fruit Value Comparison plus 50%
	(30% more fruit yield and grown 20% faster)

Michigan Aeroponics Facility Commercial Pepper Trial

This commercial pepper trial was conducted by David Marshall of Morningstar Grower Services. David also oversaw GROW's first commercial flower trials previously announced on October 24, 2018.

This trial replicated the St. Cloud State pepper trial design other than dissolved CO_2 foliar spray was manual. Additionally, leaf foliar spraying frequency was every 30 minutes to match the aeroponics company's water and dissolved nutrient application frequency on exposed pepper plant roots.

Results were consistent with St. Cloud State University's scientific pepper data with increased pepper yields and accelerated fruit ripening.

St. Cloud State University Scientific Pepper Trials

These pepper trials were automated and started from seeds. Controlled growth chambers used foliar spray at twenty-minute intervals with CO_2 infused water dissolved at 1000 PPM. CO_2 foliar sprayed plants showed a 10% fruit yield increase over CO_2 gassed plants and 30% fruit yield increase over plants that were not gassed. Additionally,10% to 20% faster fruit ripening was shown versus the two control plant groups.

Also, the CO2 foliar spray which displayed distinctly superior results, used 50% less CO2 gas versus CO2 gassing at 800 PPM.

John Archibald, CEO of GROW stated, "Until legal cannabis, the

top two greenhouse crops in Canada were tomatoes at 38% and peppers at 33% of a 2015 estimated $1.3B vegetable greenhouse market. (Source: Agriculture and Agri-Food Canada).

Our pepper results show the value superiority of our dissolved CO_2 Foliar Spray technology over CO_2 gassing and dramatic value superiority over no CO_2 gassing of plants. We can add plant yield and speed to maturity value to any greenhouse or indoor grow facility that does not use CO2 gas, that does use CO2 gas or to the 95% of the world's plant food grown outdoors, where it has been impossible to add $CO_{2.}$ until now."

About CO2 GRO Inc.

GROW's mission is to accelerate all indoor and outdoor value plant growth naturally, safely, and economically using its patented advanced CO_2 foliar technologies. GROW's global target plant markets are retail food at $8 trillion per year (Plunkett Mar 2017) and retail non-food at an estimated $1.2 trillion per year with retail tobacco at $760 Billion (BA Tobacco estimate), floriculture at $100B by 2022 (MarketResearch.Biz estimate) and legal retail cannabis at $50 billion per year by 2022 (Bay St Analyst estimates).

GROW's CO_2 technologies are commercially proven, scalable and easily adopted into existing irrigation systems. GROW's proven crop yield enhancements and revenue model are compelling for growers and Agri-industrial partners.

GROW's sole focus is working with its plant grower and Agri-industrial partners in proving and adopting its CO_2 technologies for specific growers' plant yield needs.

The CO_2 technologies work by transferring CO_2 gas into water and foliar spraying across the entire plant leaf surface area, which

is a semi permeable membrane. The dissolved concentrated CO_2 then penetrates a leaf's surface area naturally like nicotine naturally dissolves through human skin from a nicotine patch.

Foliar spraying of natural water, dissolved nutrients and chemicals on plant leaves has been used for over 60 years by millions of indoor and outdoor plant growers. To date, outdoor growers have not had any way to enhance plant CO_2 gas uptake for faster growth.

Indoor use of CO_2 gassing has enhanced plant yields for over 60 years. However, about 60% of the CO_2 gas is typically lost through ventilation. Current greenhouse CO_2 gassing levels of up to 1500 PPM are also not ideal for worker health and safety. GROW's safer infused CO_2 foliar spray can be used by indoor and outdoor plant growers with minimal CO_2 gas lost and much greater plant bioavailability resulting in higher yields.

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