 **cubicfarm**
SYSTEMS CORP.

LOCAL
CHAIN
AG-TECH

TECHNOLOGY TO FEED A CHANGING WORLD

TSX:CUB

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**FOOD SECURITY IS A GLOBAL CRISIS
WHICH COVID ACCELERATED...**

**OUR WORLD'S POPULATION IS
EXPECTED TO NEARLY **DOUBLE** WITHIN 40 YEARS**



WE ARE ALREADY USING **100% OF THE WORLD'S
AVAILABLE AGRICULTURAL LAND AND WATER**



**BY 2050, MORE THAN HALF THE WORLD'S
POPULATION WILL RELY ON FOOD SOURCED
OUTSIDE THEIR COUNTRY.**



**A SUPPLY CHAIN DESIGNED FOR EFFICIENCY
LED TO FRAGILITY. PUTTING PEOPLE, FARMERS,
ENVIRONMENT, AND ECONOMIES AT HUGE RISK.**



**TECHNOLOGY TO GROW MORE FRESH
LIVESTOCK FEED & FOOD WITH LESS (LAND,
ENERGY, WATER, LABOUR)**



AWARD-WINNING TECHNOLOGY FOUNDED BY FARMERS

CubicFarms™ is a leading local chain ag-tech company.

We developed and deliver automated indoor growing technologies to help local farmers grow profitably and sustainably 365 days a year, anywhere on earth.



GROWING COMMERCIAL SCALE
FRESH PRODUCE INDOORS



GROWING COMMERCIAL SCALE
FRESH LIVESTOCK FEED INDOORS





LOCAL CHAIN AG-TECH

Local chain technologies shorten the supply chain, minimize the use of natural resources, and maximize cubic space.

Local chain ag-tech grows more with less — less land, water, energy and labour, 365 days a year.



CUBICFARMS

**HOW DO WE LOCALIZE COMMERCIAL
SCALE PRODUCE INDOORS?**



FLEXIBLE MODULAR CONFIGURATION SUPPORTS NUMEROUS CULTIVARS AND MARKETS



95% less fresh water



Automation to optimize
space and minimize labour



Single row of light reduces
energy and heat



Zero pesticides



Significantly less waste,
shortened supply chain



High quality produce,
45% more nutrients



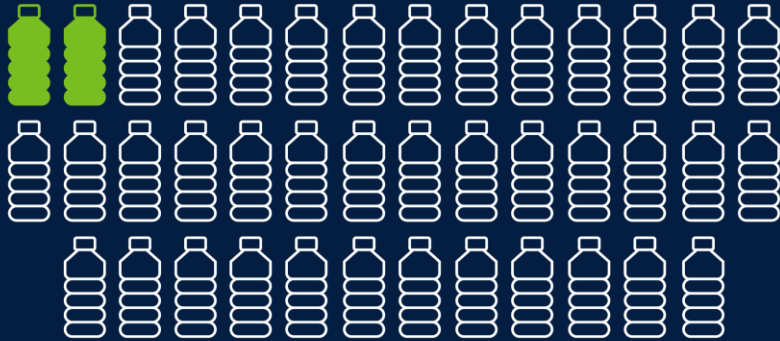
CUBICFARM SYSTEM

Watch the video: bit.ly/insideCubicFarmSystem



KEY NUMBERS

95%
LESS WATER



To grow a head of lettuce in our **CubicFarm System** it only takes **two bottles of water** compared to **40 bottles of water** needed for field farming.

+80%
LESS WASTE

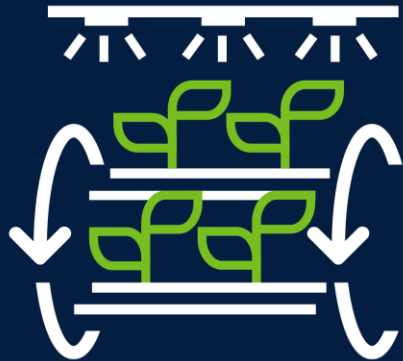


With long chain food supply, we're buying **two heads of lettuce** and throwing away **more than half of it** – this is not okay.



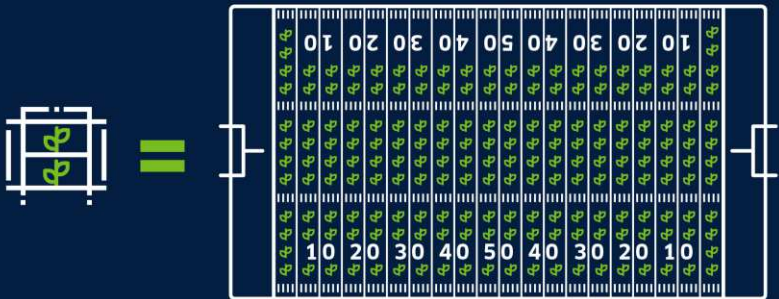
KEY NUMBERS

1
ROW OF LIGHT



Our unique patented **Crop Motion technology™** moves plants under just one set of growing lights simulating outdoor growing, instead of using lights on every growing level.

52X
LAND EFFICIENT



The volume you grow in **one CubicFarms module** is the same amount you could grow in a football field.



HIGH-DENSITY CUBICFARMS FRESHHUB

- New 96-module configuration
- Next generation high-density system
- On 1 acre of land, FreshHub will grow the equivalent of 100 acres of field production





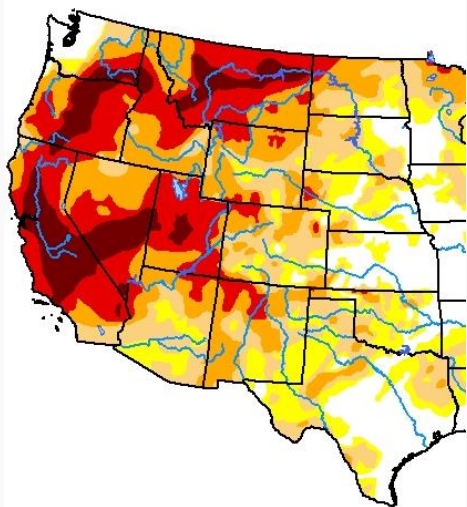
HYDROGREEN

HOW CAN WE REPLICATE THIS INDOORS ANYWHERE?



AT HYDROGREEN, WE BELIEVE FARM UNPREDICTABILITY IS COSTLY AND DANGEROUS

FARMERS ARE FACING



SEVERE DROUGHT



SCARCITY OF ARABLE LAND



INCREASING SEVERE WEATHER EVENTS



DEPENDENCE ON FEED SUPPLIERS & COMMODITIES



DAILY NEED FOR NUTRITIOUS FRESH LIVESTOCK FEED

FARMERS WANT: Increased yield with reduced footprint, reduced methane, net zero



At HydroGreen, we believe farm **unpredictability** is costly and dangerous.



Can farming really be **sustainable** if farmers struggle to grow profitably?





Consistent, fresh, on farm
= **reliable**, **sustainable** and
nutritious feed.



Technology & automation to grow
more livestock feed **with less.**

Less land, water, energy, labour.





HYDROGREEN AUTOMATED VERTICAL PASTURES™

Watch the video: bit.ly/HydroGreenOverview

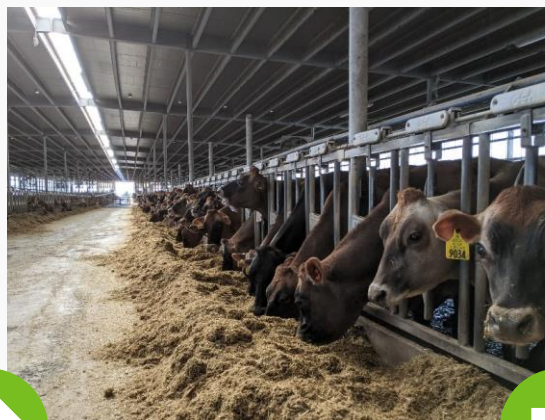


PLANT SCIENCE AND ANIMAL PERFORMANCE DATA



HydroGreen

- Quality
- Consistency
- Dependability



Feed Intake

- Palatability
- Sugar levels
- Digestibility



Efficiency

- Nutrient density
- Enzyme activity
- Propionate



Performance

- Production
- Health
- Fertility

HYDROGREEN BENEFITS ANIMALS, THE FARM, THE FARMER, AND THE CONSUMER



Uses 95% LESS fresh water



Six GLS 808 systems support 1,000 cows at 15% ration inclusion



Seed to feed in 6 days yielding four tons DM / 32 tons as fed



ZERO pesticides or fertilizer



Highly nutritional, full of vitamins, antioxidants, and enzymes



Significant reduction of GHGs



CONSISTENT LIVESTOCK FRESH FORAGE

HydroGreen harvest provides fresh live green feed every day





HYDROGREEN KEY NUMBERS

Up to
365
harvests /
year



A **HydroGreen Grow System** can harvest daily and can produce up to **365 harvests annually**.

25M
lbs. / year



A **HydroGreen Vertical Pastures™** (12 Grow Modules), can grow up to **25 million lbs of fresh livestock feed** every year.



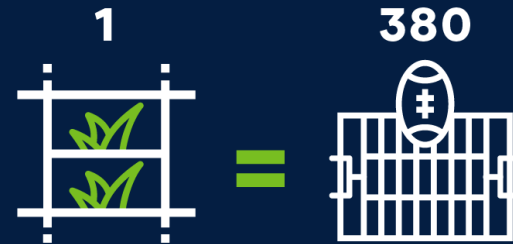
HYDROGREEN KEY NUMBERS

95%
less water



HydroGreen Grow Systems use 95% less water than conventional irrigated field crops.

500
acres
replaced



1 HydroGreen Vertical Pasture™ (12 HydroGreen grow modules) replaces **500 acres** of farmland. That's equivalent to **380 football fields**.



RESEARCH CONFIRMS GHG REDUCTIONS

Published university research **confirms 7.4% fewer greenhouse gas emissions using HydroGreen's hydroponic fodder system.**



"With approximately 70% of all agricultural land being used for some aspect of livestock production, beef and dairy farming currently represents approximately 14.5% of all human-induced GHG emissions."

DR. LENORE NEWMAN, CUBICFARMS SCIENTIFIC ADVISORY BOARD

<https://www.facetsjournal.com/doi/full/10.1139/facets-2020-0066>





HYDROGREEN INNOVATION CENTER

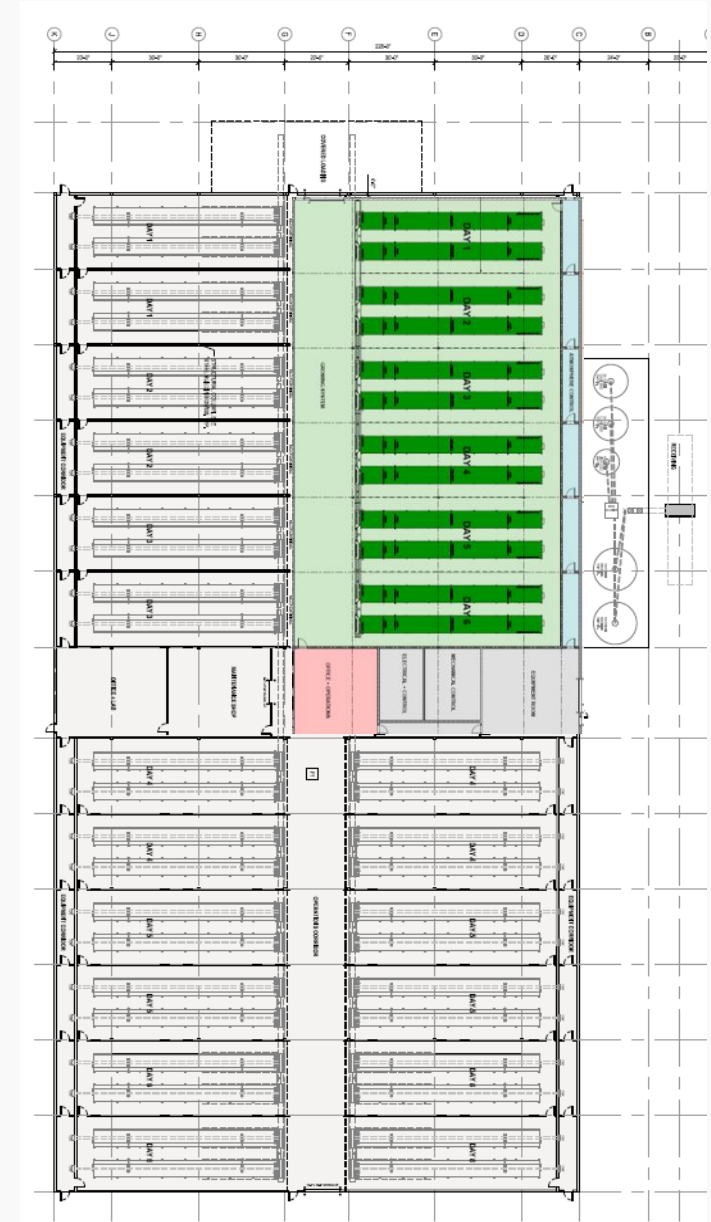
- 12,000 sq ft. (1,110 m²)
- Home of our HydroGreen R&D team
- 3 HydroGreen Automated Vertical Pastures™ installed
- New commercial prototype
- Touring, testing, and training facilities
- Daily feed production for research and data (Crosswind Jerseys Dairy, South Dakota)





HYDROGREEN AUTOMATED VERTICAL PASTURES™

- Once installed, this will be the largest automated indoor fresh livestock feed system in the world.
- 12 commercial scale machines will be installed.
- Burnett's is a 17,000 head, 35,000-acre dairy and beef cattle farm in Wyoming.
- Agreement includes collaboration on research and nutrition data collection.
- Site readiness is progressing well for installation.





HYDROGREEN CERTIFIED DEALER NETWORK

- HydroGreen is developing a dealer network that has extensive farm relationships
- Dealer partners project a numbers of projects & units per year
- Initial sales projections valued over CAD\$23 million for 2022
- Seasoned dairy and beef industry consultants
- Established ag-tech integration partners
- Many more dealers to come across North America





COW PERFORMANCE OBSERVATIONS

Crosswind Jerseys has 2,100 milking cows, a total of 2,500 cows in Elkton, South Dakota.

Crosswind Jerseys ranks:

#1

for large dairies
in milk fat

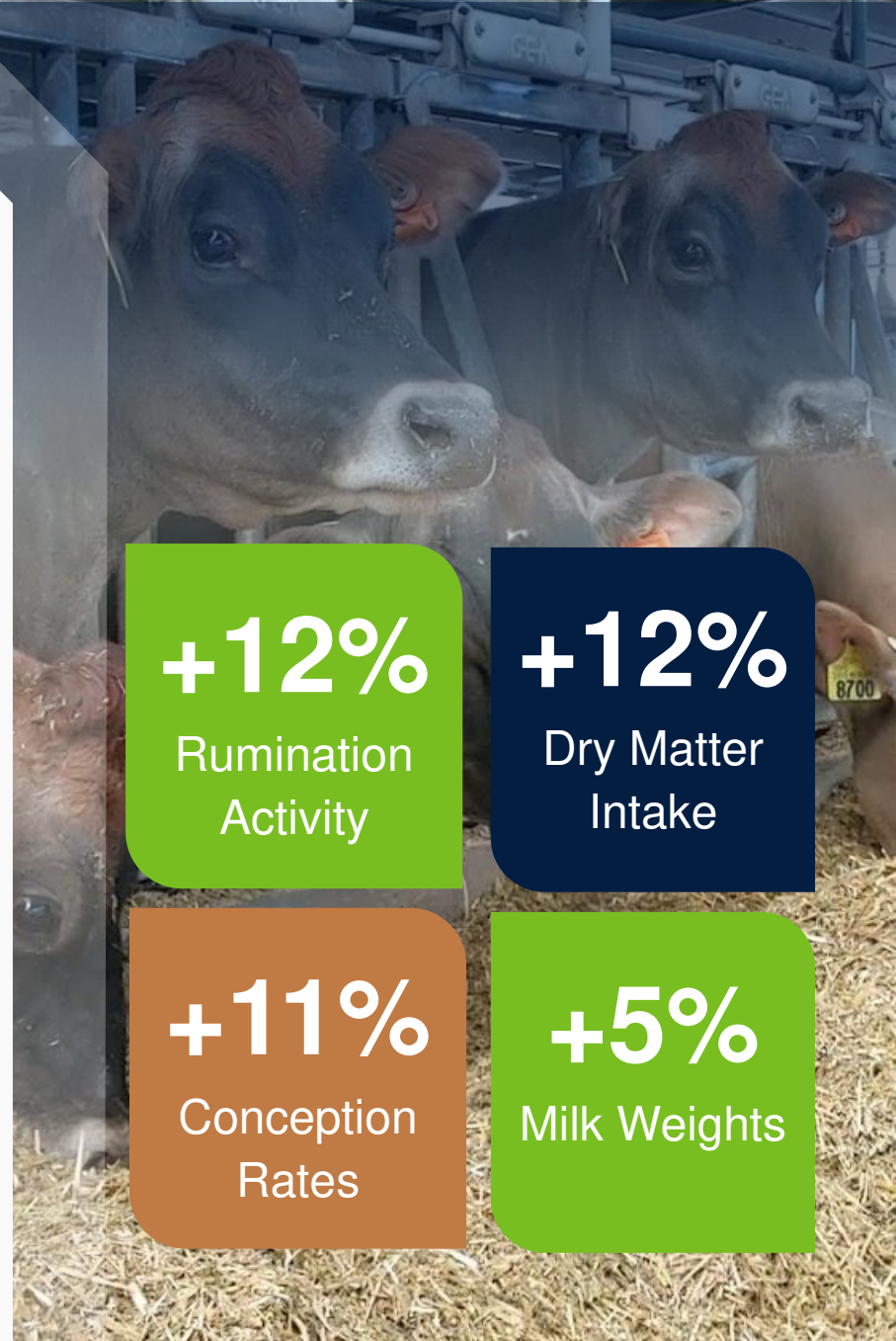
7th

out of the Top 10
Herds by Fat

#55

in the country
for genetic merit

- Data from several HydroGreen feeding trials at Crosswind Jerseys supports **favorable increases in milk production, cow health and cow fertility** after calving.





BEEF CATTLE MARKET

- 12 HydroGreen Grow System modules recently purchased by wholesale distributor DGI for beef cattle customers.

***“This just saved our farm.** The severe drought had us worried we wouldn’t be able to feed our herd. The HydroGreen technology allows us to grow our own on farm fresh livestock feed.”*

- Michael Rigby, Rigby Cattle Co., Utah














***“These steers are finishing grading AAA,** which is really impressive, and we can do this year-round because we’re using HydroGreen.”*

- Bill Vanderkooi, Baker View Eco Dairy, BC





NOVEL FARMING SPACE GAINING TRACTION WITH SIGNIFICANT FUNDING*

RAISED TO DATE		BACKED BY	
	\$540 mn Additional \$400 mn	 	
	\$600 mn	 	
	\$238 mn	 WHEATSHEAF A PART OF GROSVENOR  MERAAS 	
 BOWERY	\$647 mn	 	
	\$566 mn	Public	

*All figures in USD unless indicated

 **cubicfarm**
SYSTEMS CORP.

RAISED TO DATE
~C\$86mn


AG SCIENCE*

Handelsbanken

(Management ~24%)


FARMS

OUR WORLD-CLASS GROWING EXPERIENCE

CubicFarms' technology was developed by Jack Benne, founder of Bevo Farms, one of North America's largest plant propagation businesses, and his son Leo Benne, Chief Product Officer. Bevo's decades of growing experience have culminated in the next generation of ag-tech.

This includes the HydroGreen System, a technology for growing nutritious livestock feed that was developed by Dohl Grohs for his ranches in South Dakota, Utah, and Missouri. Dohl developed the concept of low-maintenance feed growing for his cattle in areas with limited precipitation.





DRIVING DEEPER VALUE INTO OUR PLATFORM

- Set up for scale with full control of our software stack
- Data strategy that ensures security and maximizes use of our data by pushing innovation through automation
- Improve food safety tracking by providing blockchain inventory from seed to customer



ESG AND FOOD SECURITY THEMES

- Fewer natural resources needed
- Greenhouse gas emissions reduced
- Benefitting people, planet, and economy
- Contributing toward many Sustainable Development Goals outlined by the United Nations



EXPERIENCED LEADERSHIP TEAM

At the intersection of experience in engineering, cultivation, manufacturing, sales and global entrepreneurship, the CubicFarms team has been assembled to drive growth at an international level.

OUR LEADERSHIP EXPERIENCE



ADVANCING FOOD PRODUCTION TECHNOLOGY

The CubicFarms **Scientific Advisory Board** brings significant knowledge and expertise in:

- Land use
- Controlled-environment agriculture
- Artificial intelligence
- Machine learning
- Automation
- Data analysis



DR. LENORE NEWMAN
SAB Chair



DR. TAMMARA SOMA
SAB Member



DR. LAILA BENKRIMA
SAB Member



DR. EVAN FRASER
SAB Member



EMPLOYEE SHARE PURCHASE & MATCHING PROGRAM

WE'RE ON A MISSION TO TRANSFORM AGRICULTURE

We're leading an unstoppable movement to save the planet and ourselves.

Our employees strongly believe in our mission.
They're acting like owners of the company because they are.



**AUTOMATED INDOOR GROWING
TECHNOLOGIES FOR FRESH
PRODUCE & LIVESTOCK FEED
ANYWHERE, 365 DAYS A YEAR.**

THANK YOU FOR YOUR INTEREST!

For further questions, contact:

✉ investors@cubicfarms.com



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