# MARKET IMPLICATIONS FOR THE HEMP INDUSTRY WITH THE LEGALIZATION OF MARIJUANA By Pete Scales –

**Owner/Operator of ACL Foods** 

#### CANNABIS SATIVA OR CANNABIS INDICA, COMMONLY KNOWN AS INDUSTRIAL HEMP OR ITS MORE POPULAR NAME, MARIJUANA, ORIGINATED IN ASIA MILLIONS OF YEARS AGO



#### What is Cannabis?

- A) A troublesome ditch weed?
- B) A cornucopia of nutrition and medicine?
- C) A warehouse of structural components/fibers?

Answer - all of the above

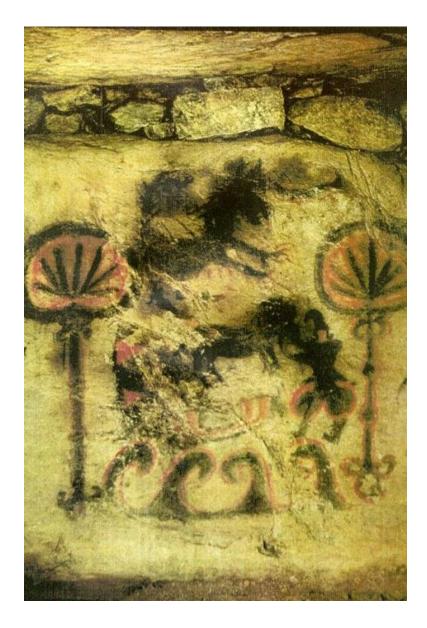




Strong archeological evidence of cultivation and extensive utilization of hemp going back more than 15,000 years.

The ancients used:

- seed for flour or oil
- stalks for fiber
- flowers/leaves as a medicinal warehouse



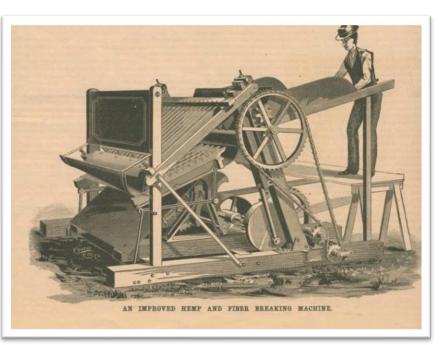
# Ancient Cannabis painting found in a cave in Kyushu, Japan, circa 5000 BC.

# Hemp Through the Ages

Up to the turn of the twentieth century the economy of entire communities, worldwide, depended on the Hemp version of Cannabis.

Wars were fought to retain access to Hemp supplies.







# 1937, A YEAR OF INFAMY FOR <u>HEMP</u>

• A cabal of US industrialists - Hurst (lumber baron/publisher),

DuPont (chemicals and plastics) and Morgan (oil baron) sought to minimize hemp's natural competitive edge over just about every other product.

- They bullied the US Government, who in turn, cajoled most other governments globally to link hemp to the "dreaded" marijuana.
- In a matter of months, hemp industries around the world collapsed.

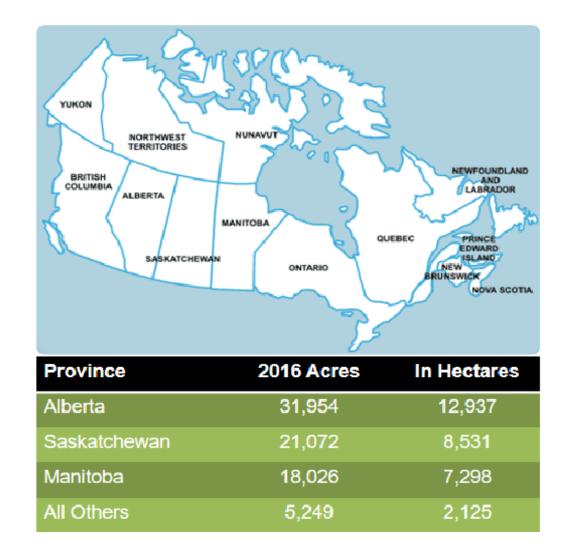
# After 60 Years Hemp makes a comeback - in Canada

In 1997, Health Canada approves restricted cultivation of Hemp



## **CANADIAN HEMP TRADE ALLIANCE**

- Established in 2003
- Not-for-profit industry association
- 361 paid members from across the hemp value chain
  - Farmers, processors, researchers, plant breeders, etc.
  - Members from 9 of 10 Canadian provinces
- Directors elected from the membership

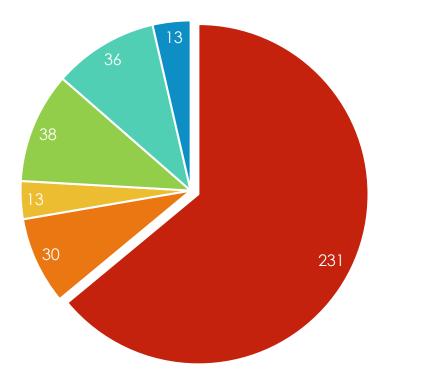


#### **CANADIAN HEMP TRADE ALLIANCE VISION**

CHTA intends to become the "go to" organization for industry, government, and consumers looking for expertise and insight into hemp Food, Fibre, Feed and Natural Health Products in Canada, creating a \$1 billion industry by 2023.



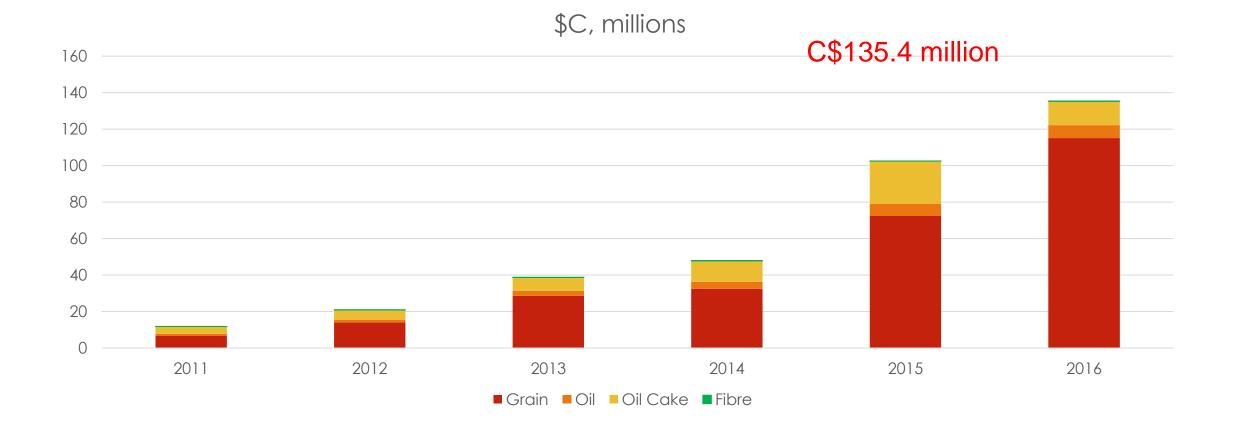
## REPRESENTATION FROM ACROSS THE VALUE CHAIN



64% of the membership are farmers

Farmer
Processor
Distributor
Supplier
New Venture
Researcher

# **CANADIAN HEMP EXPORTS 2011-2016**



# FOUR MARKET SEGMENTS OF INTEREST

- Food well developed in Canada, and still growing
- Natural Health Products tightly restricted due to current Industrial Hemp Regulation
- Feed need to gain regulatory approvals with CFIA
- Fiber lots of interest, but difficult to generate momentum



# HEMP AS A NUTRITIONAL WAREHOUSE

- •Hemp Seed Oil
- Hemp Protein Powder
- •Hemp Hearts
- Hemp Husks

#### Nutritionally, hemp is a veritable warehouse of food products:

- Likely the best source of plant-based protein providing upwards of 70% by weight
- Hemp is rich in essential fatty acids, in particular, Omega 6 and Omega 3 in a ratio of 4 to 1 which is nearly perfect for cell health and regeneration
- Highest available cellulose known i.e., edible fiber, soluble and nonsoluble alike hemp is a winner
- Loaded with antioxidants
- Hemp has the distinction of being low in carbohydrates

# HEMP AS A NUTRITIONAL WAREHOUSE (CONT)



- Nutraceuticals
- Omega Supplements
- Fiber
- Antioxidants
- Protein

# NOVEL LIVESTOCK/FEED AMENDMENTS

- Could support a robust livestock industry in Canada
- •Hemp prohibited as livestock feed





# SIGNIFICANT FIBER SUPPLY

- Hemp straw is primarily a "waste product" in Canada
- Most produced hemp straw is burnt or stockpiled
- Limited processing established to date
- Trying to establish opportunities to use all fractions from straw resource: fibre, hurd AND dust



## SIGNIFICANT FIBER SUPPLY (CONT)

- Construction materials
- Composite Plastics
- Textiles
- Nano-conductors
- Automotive Paneling
- Medical Absorbency
- Environmental matting
- Etc.







#### **HEMP IS NOT MARIJUANA!**

#### Well, not really



# THE HEMP/MARIJUANA CONUNDRUM

- The CHTA has spent the last 20 years fighting to have the hemp industry recognized as something completely separate from Marijuana industry.
- Bill C-35, (the cannabis legislation) to be enacted July 2018, lumps industrial hemp and Marijuana together into the same classification of "Cannabis".
- So, two industries in the same plant.

# NON MARIJUANA MARKET IMPLICATIONS OF BILL C-35

Implications

- Greenhouse operators
- Vegetable production
- Dairy
- Chicken
- Turkey
- Egg
- Hatching Egg
- Etc

# GREENHOUSE OPERATORS

 Municipalities across Canda are taking up to three years to approve cannabis LP's (Licenced processor) applications

Consequence; present green house operations are being bought up, particularly in BC's Fraser Valley

# **VEGETABLE PRODUCTION**

#### Pros

- Organic acreage will become very sought after
- lots of mulch-----
- Compost
- Construction fiber
- Materials



#### Pros

Cons

#### Pro: Feed materials possible Bio-gas-----

# CHICKEN

#### Pros



#### Pros



#### Pros

- Hemp seed husks about to approved by CFIA as novel feed amendment
- Known that hemp and hemp biproducts are selectively eaten by poultry
- Omega 3 eggs are a distinct result
- Vegetable based protein now available to poultry industry

# HATCHING EGG

Pros

# THE END – NOW THE FUN REALLY STARTS!