

THE NZHIA HE NZHIA DISCOVERY & INVESTMENT TOUR 20 1

FOOD . FIBRE . HEALTH

GOLDEN BAY

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Exploring hemp's economic and sustainability potential

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Thames War Memorial Civic Centre

Tuesday 21 June 2022 PRESENTED BY RICHARD BARGE



NZ Hemp Industries Association iHemp and History



Growers and Cultivators

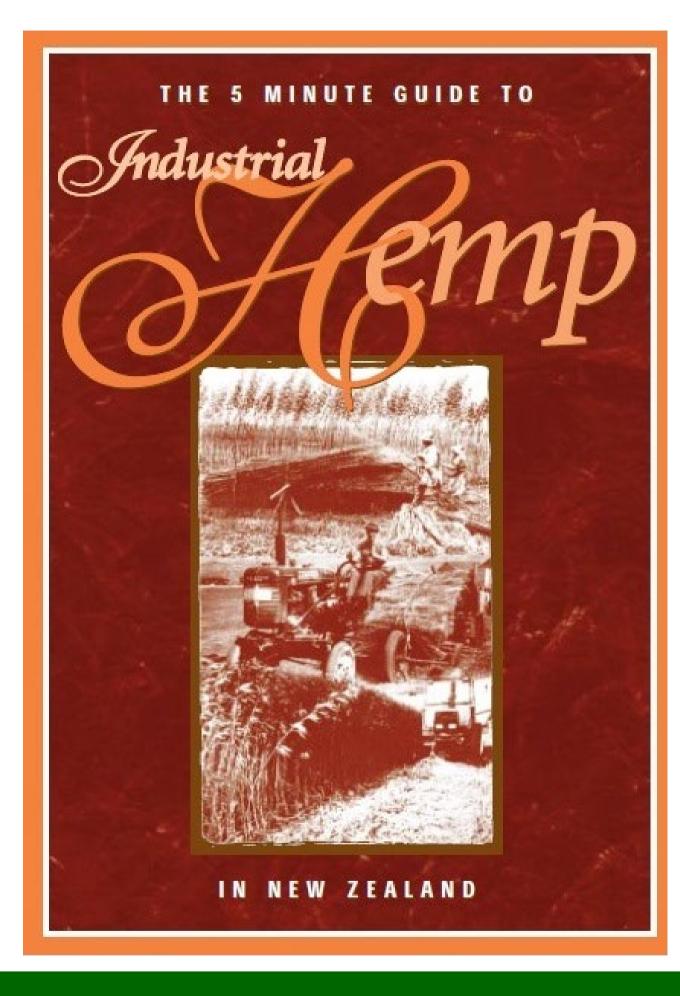


Testing and Development



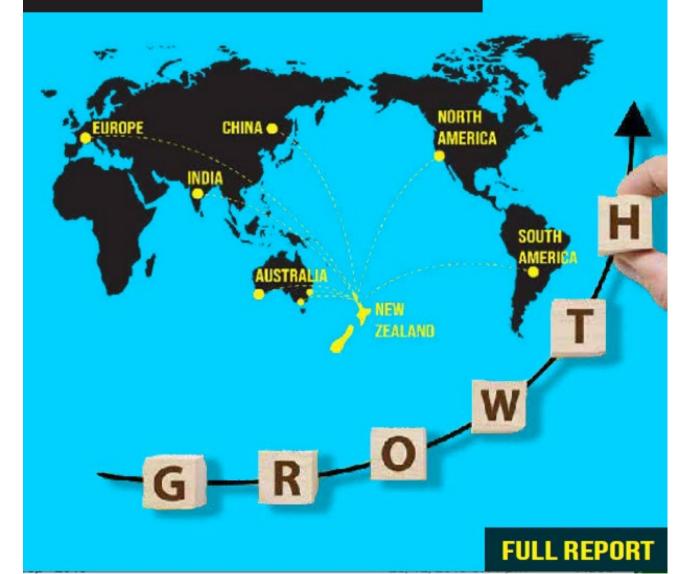
Processors and Manufacturers







NZ HEMI INVESTO \$2 Billion And 20,000 Regiona Just Needs The

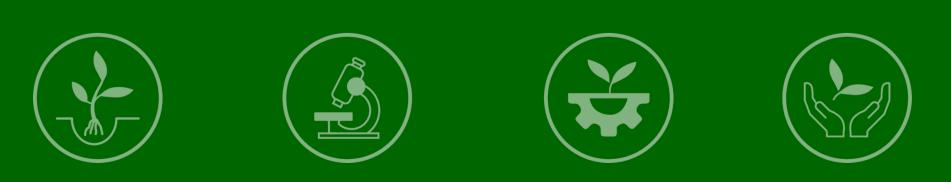


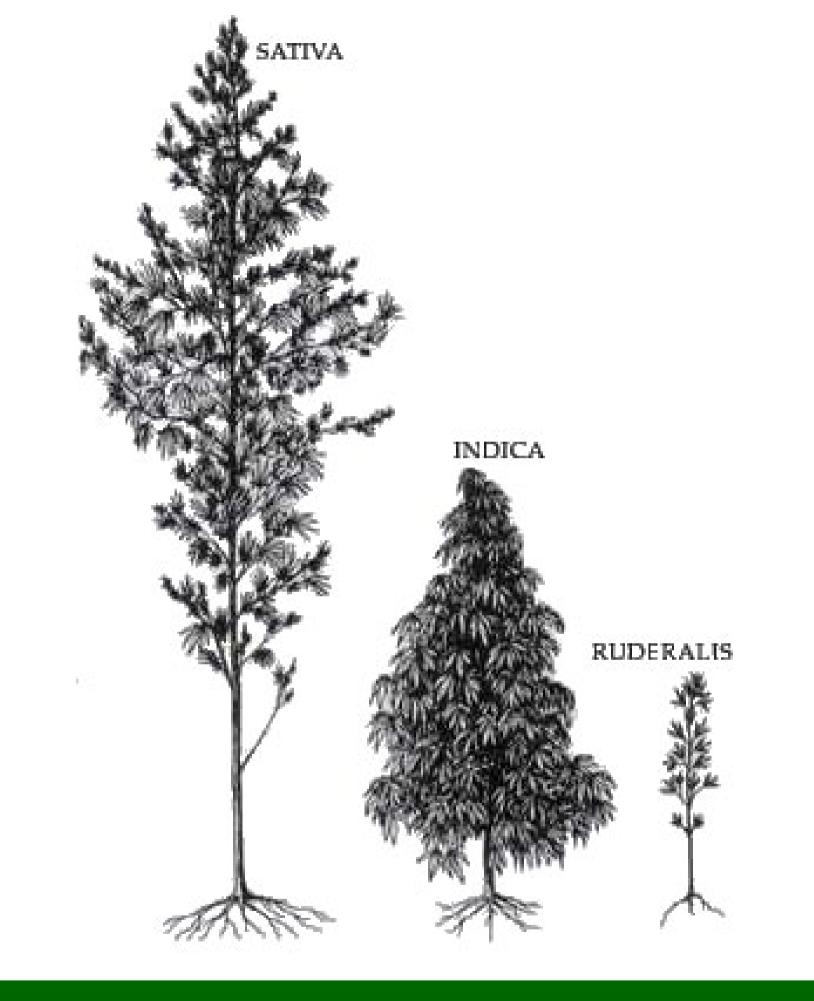


NZ HEMP EXPORT DRIVEN Investor report:

S2 BILLION AND 20,000 REGIONAL JOBS BY 2030 JUST NEEDS THE NOD...





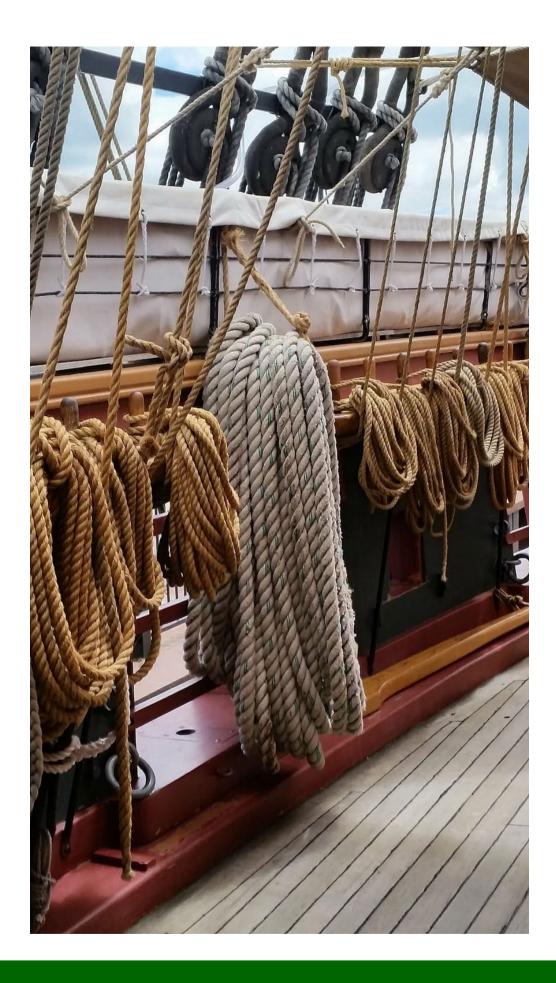










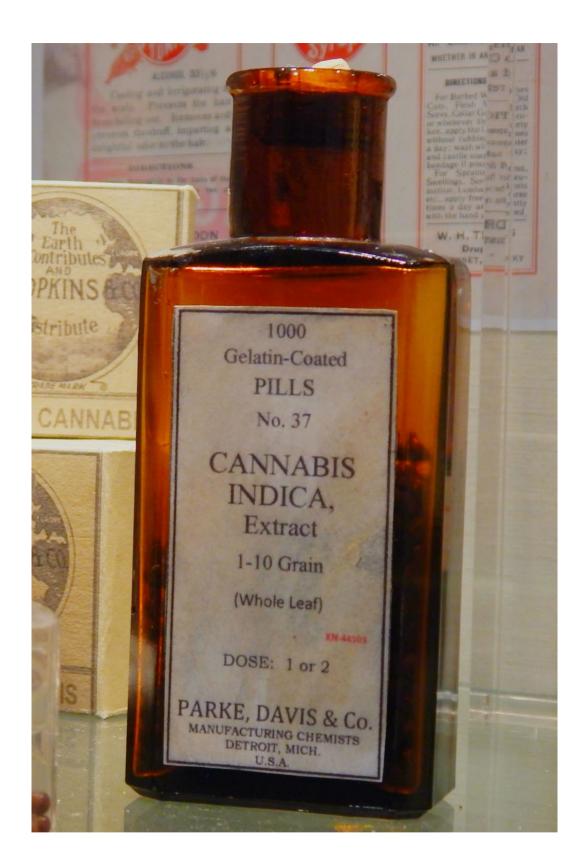






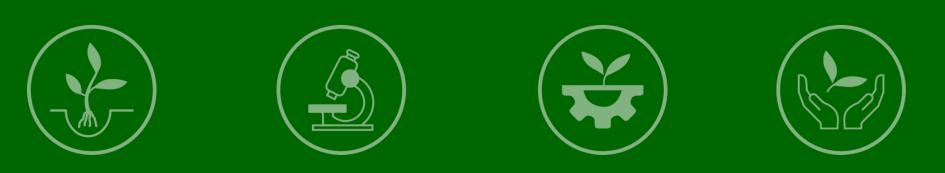




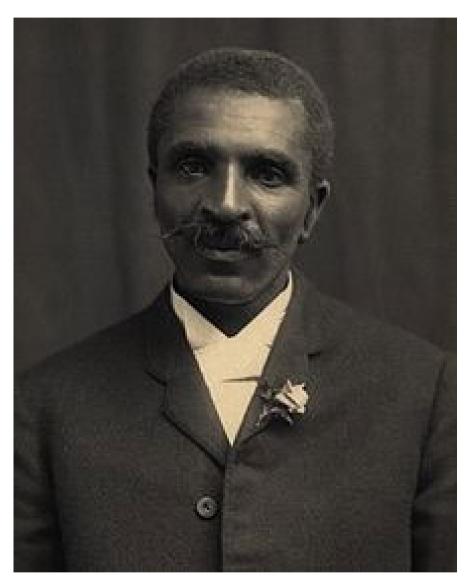


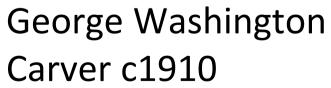






Chemurgy is a branch of applied chemistry that is concerned with preparing industrial products from agricultural raw materials



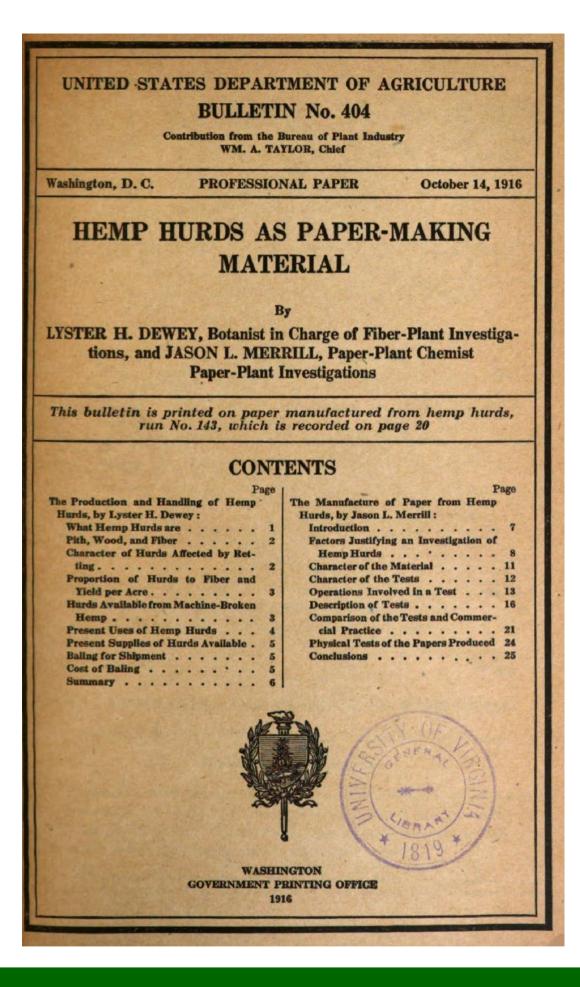






Henry Ford c1930





BILLION -DOLLAR CROP

patrices with endir-produced boreign filter while paying farmore When dellars a ton for being as it comes from the field. From the farmers' point of view; heata is an ener crop to grow and will pield from flater to six how per acre on any land that still grow sorn, when, or outs. It has a short growing present, so that it can be planted after other stops are in. It can be provid to any state of the union. The long roots pesterrate and hreak the sell to berre it in prefect condition for the sent year's ong. The detas should of lowers, sight to bushes fast above the ground, chakes and usuels. Two auccustive empt are enough to reduce beed that hes been abandoned Instatute of Caladian Dublies or Querk grain. Under ubl methods, hemp

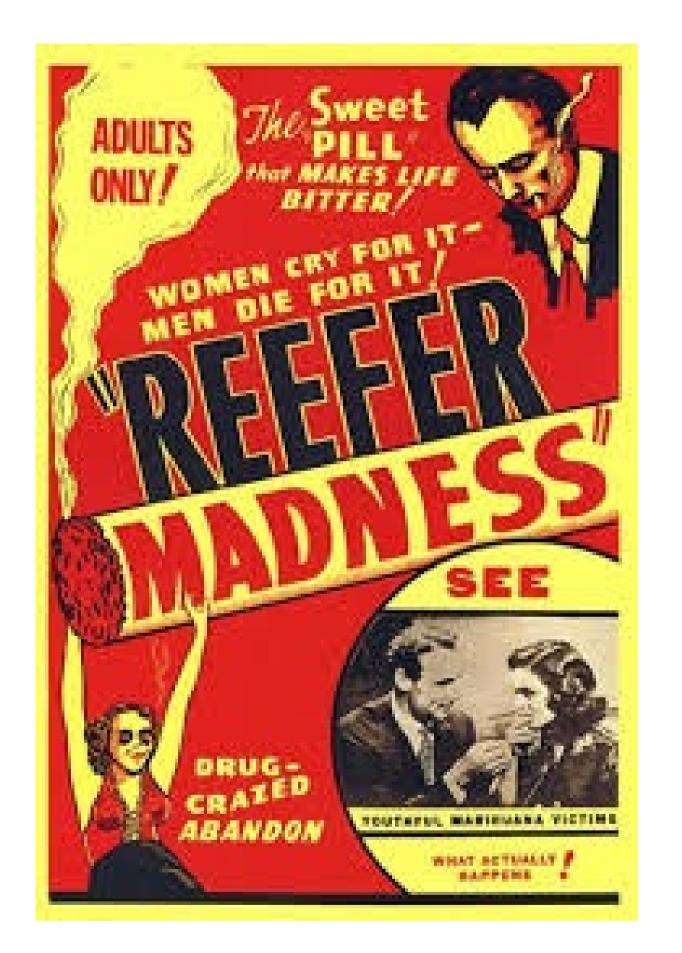
timeland is part 1888.

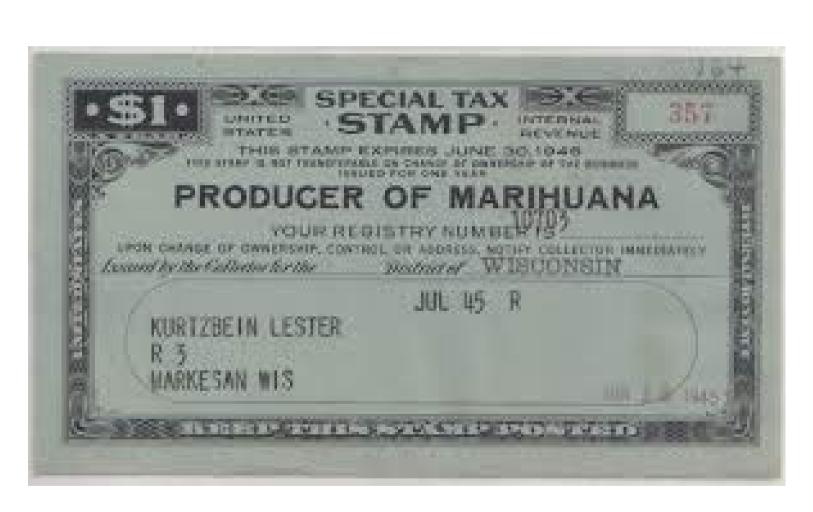
Figs. makers myster of home deater must from tense. Buttom, bernatting he with a plate binder. Strong group home home hand (in Farme















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All the hempseed available in the U.S. is stacked in this Kentucky warehouse under armed guard. Next year, USDA hopes, there'll be enough to grave 350,000 acres.







SINGLE CONVENTION ON NARCOTIC DRUGS, 1961,

as amended by the 1972 Protocol Amending the Single Convention on Narcotic Drugs, 1961

Article 28. Control of cannabis

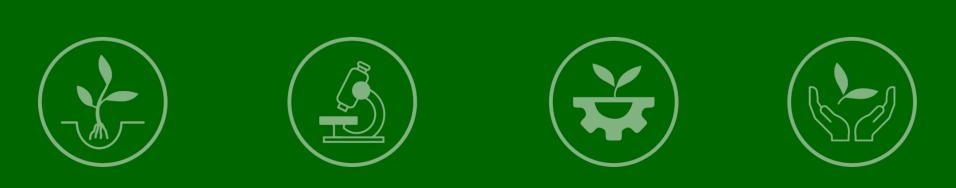
If a Party permits the cultivation of the cannabis plant for the prod 1. tion of cannabis or cannabis resin, it shall apply thereto the system of controls as provided in article 23 respecting the control of the opium poppy.

This Convention shall not apply to the cultivation of the canna-2. bis plant exclusively for industrial purposes (fibre and seed) or horticultural purposes.

The Parties shall adopt such measures as may be necessary to prevent 3. the misuse of, and illicit traffic in, the leaves of the cannabis plant.











3 Object

The object of these regulations is to enable the cultivation and distribution of industrial hemp under a licensing regime that ensures that other forms of cannabis are not cultivated and distributed under the guise of industrial hemp.

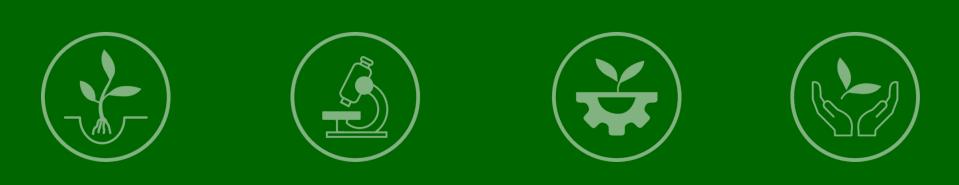
Misuse of Drugs (Industrial Hemp) Regulations 2006 (SR 2006/163)

Dame Sian Elias, Administrator of the Government

Order in Council

At Wellington this 26th day of June 2006





hemp means cannabis plant, seed, or fruit

hemp product means—

- a product of a kind that is derived, in whole or in part, from industrial (a) hemp; and
- a hemp seed food product (b)

hemp seed food product means a hemp seed food product declared to be food by regulations made under the Food Act 2014

industrial hemp means hemp in the form of-

plants with a THC content that is-(a) (i) generally below 0.35%; and

- (b)

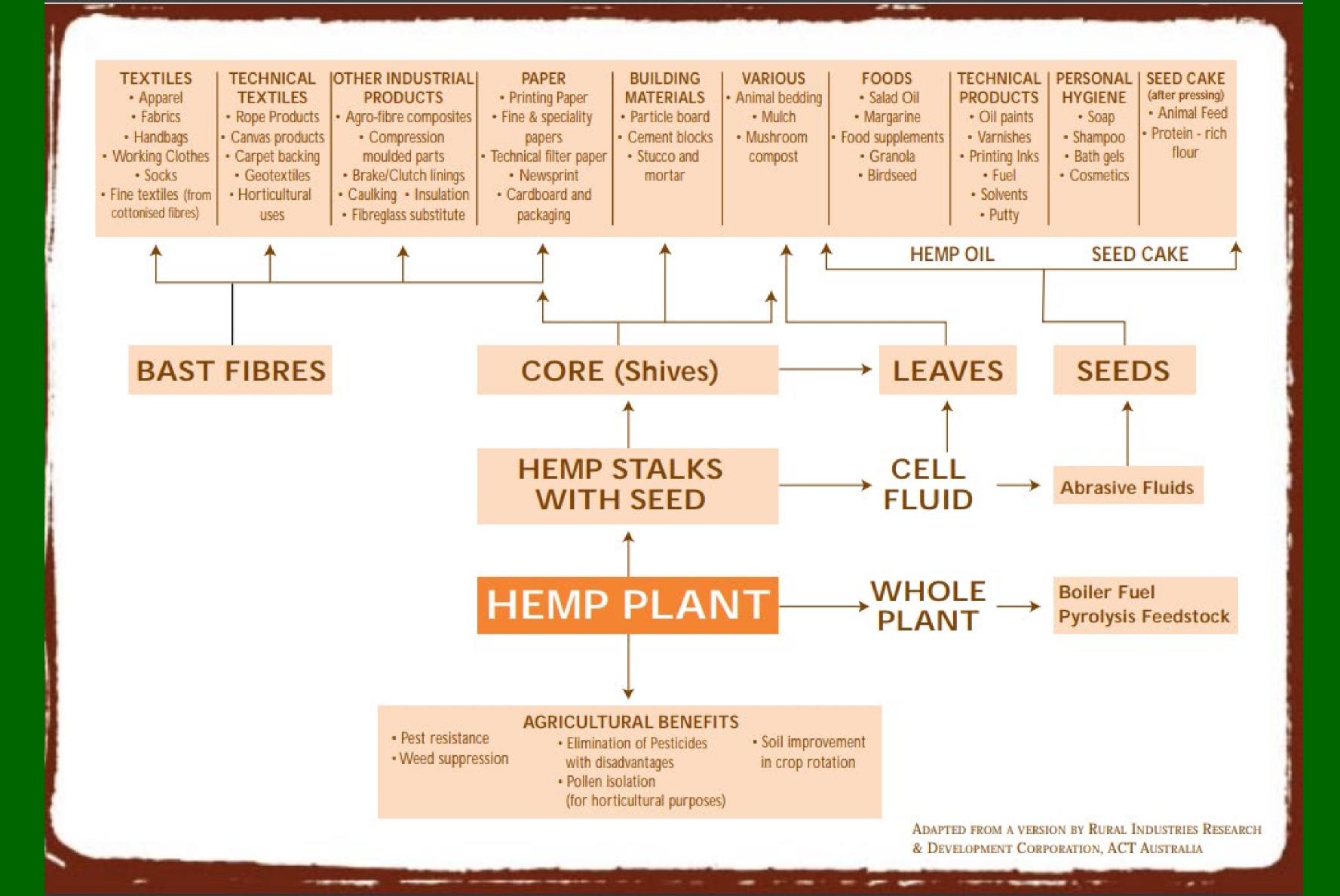
THC content, in relation to a hemp plant, means the content of delta 9-tetrahydrocannabinol and delta 9-tetrahydrocannabinolic acid of the plant expressed as a percentage of the dry weight of the plant





(ii) is not above 0.5%; or

seeds harvested from plants of that kind





- This pioneering industry is on the edge of incredible
 - growth. We're looking for farmers, growers,
- entrepreneurs and businesses who want to discover
- how to invest, upskill and become part of Aotearoa New
 - Zealand's next billion dollar economy.

2018 crop Manawatu. Grown using organic compliant systems/inputs.



Case study 3

Regenerative farming at Rehoboth Farm

They used to cultivate soil but now spray with glyphosate (mixed with fish and fulvic acid to reduce the rate) and direct drill. There is no soil disturbance and the soil is kept covered.



Fit for a Better World Accelerating our economic potential

Ministry for Primary Industries Manatū Ahu Matua



EALAND GOVERNMENT

The primary sector has agreed a vision for its future

In April 2018, the Minister of Agriculture established the Primary Sector Council to develop a shared direction for the food and fibres sector. The Council consulted widely, talking to hundreds of people from all parts of the sector and across rural communities to arrive at our first common vision and strategy. The vision, set out below, was launched by the Prime Minister at Lincoln University in December 2019.





Bulk from press. Great to eat as is.

A quick squeeze in the hand and add to a salad, scrambled eggs, mashed potato, breakfast cereal/muesli.



20 seconds in the coffee grinder or whizz and you have a 32% protein whole food powder.

Use like you would Salt and pepper!

Add it to baking, Meatballs/rissoles, Dips & dressings. Soup or stew.

Only limited by Your Imagination!



How can hemp be used in FARMING:

- Farming as an alternative land use and cash crop plus phytoremediation, heavy metal removal and soil cleaning/ conditioning.

- Use for nitrogen uptake, and climate crisis mitigation. Crop rotation and break cropping in collaboration with

other primary industries.

Sheep & Beef? What can hemp do for you?



FOOD + FIBRE + HEALTH

www.nzhia.com

Regenerative Land Diversification

> Sustainable Revenue Stream

Supporting a Healthy Food Chain

Aotearoa NZ Hemp Statistics

NZ Hemp Industries Association Incorporated							
Aotearoa New Zealand - iHemp Licence Statistics - Provided by MOH							
Area Grown - Hectares	2015	2016	2017	2018	2019	2020	2021
Auckland	11.0	11.2	14.2	0.0	-	-	-
Bay of Plenty	-	-	19.4	0.6	12.5	0.0	0.1
Canterbury	7.2	0.2	-	130.0	168.4	813.9	446.6
Capital and Coast	-	-	-	5.0	12.0	-	-
Counties Manukau	-	-	0.2	-	0.5	0.4	-
Hawkes Bay	-	-	-	0.0	60.2	9.0	89.0
Lakes	-	-	-	-	10.0	0.0	0.6
MidCentral	-	-	-	11.0	202.8	40.4	14.9
Nelson - Marlborough	0.0	1.4	1.0	2.4	9.4	53.8	61.0
Northland	-	-	1.0	0.5	2.1	0.6	0.4
Palmerston North - Mid central	-	-	-	-	-	-	-
Rotorua - Lakes	-	-	-	-	-	-	-
South Canterbury	-	10.6	12.6	12.0	112.7	197.7	143.0
Southern	1.0	-	32.0	3.3	19.0	72.0	75.8
Tairawhiti	1.7	2.5	0.1	10.3	26.2	0.2	7.2
Taranaki	-	-	3.7	0.5	0.5	1.1	8.3
Waikato	0.4	-	-	38.0	1.0	58.6	8.0
Wairarapa	50.2	12.1	17.9	30.0	64.3	31.5	-
Waitemata	0.0	4.1	4.0	0.0	0.5	-	0.0
West Coast	-	-	-	2.0	4.3	4.7	6.0
Whanganui	-	-	_	5.2	40.0	51.0	-
Total Area Grown	71.6	42.1	106.2	250.8	746.4	1,334.9	860.7

Value Chain



Growers and Cultivators

Testing and Development

Matching Supply with Demand, to Scale the Industry





Processors and Manufacturers Distributors and Consumers

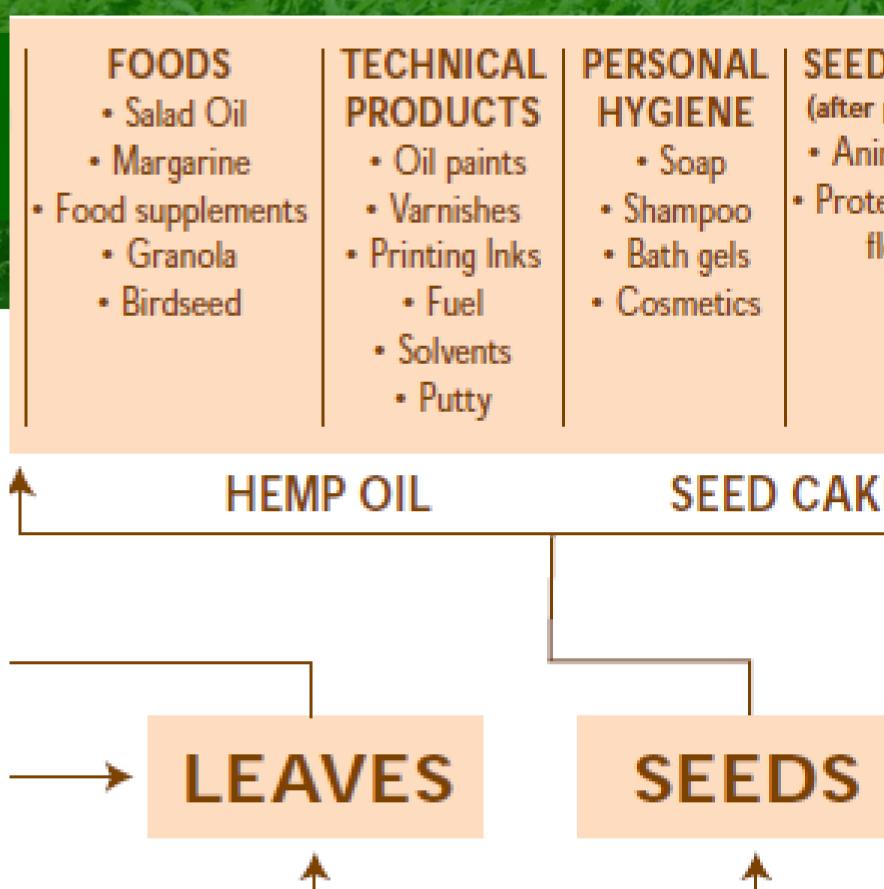


How can hemp be used in FOOD INDUSTRY:

- Seeds for food and utilising local circular economy by-product streams to make new and innovative products. Hemp seed nutritional products for humans and animals as well as seed multiplication for northern hemisphere hempseed companies. Future uses of hemp leaf, sprouts and roots.



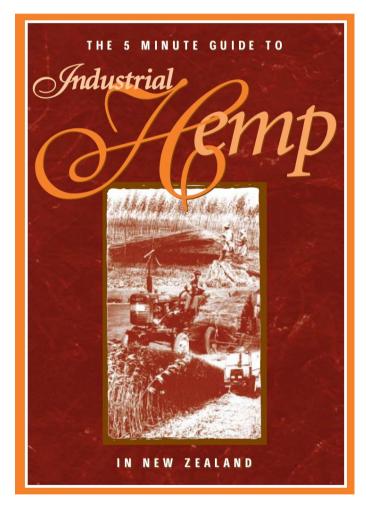
Food grade product, the enemies are heat, light and air



SEED CAKE (after pressing) Animal Feed Protein - rich flour

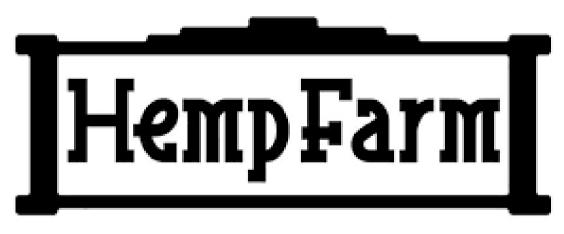


SEED CAKE









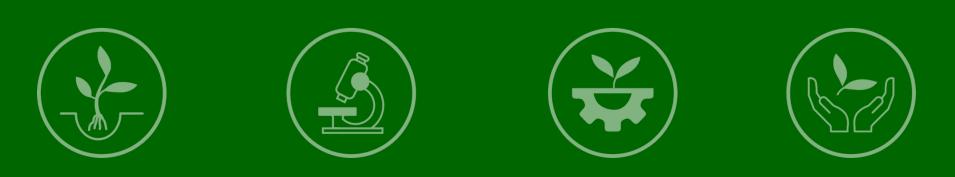
hempfarm.co.nz



















This document lists the cultivars of industrial hemp approved pursuant to regulation 5(1) of the Misuse of Drugs (Industrial Hemp) Regulations 2006.

Approved Cultivar	Date Approved	Link to Published New Zealand Gazette Notice			
A1 COMSEED	30 June 2020	https://gazette.govt.nz/notice/id/2020-go2915			
A1 HCFX	22 September 2021	https://gazette.govt.nz/notice/id/2021-go4157			
A1 MACMONO	30 June 2020	https://gazette.govt.nz/notice/id/2020-go2915			
A1 Monopurp	26 February 2019	https://gazette.govt.nz/notice/id/2019-go897			
Anka	7 September 2006	https://gazette.govt.nz/notice/id/2006-go6107			
Aotearoa 1	31 July 2008	https://gazette.govt.nz/notice/id/2008-go5518			



https://vimeo.com/34920723?fbclid=IwAR1WPjgE-QwBP-NpoHmOUKOruJ5w1heOeZMsMpH9yN3f34o_LvIl4tEoDBg



Mack McIntosh Owaka



https://www.hempseedholdingsnz.com/ hempseedholdings@gmail.com

Approved Cultivars of Industrial Hemp

Madmac and the flat ugly snail



How can hemp be used in the FIBRE INDUSTRY:



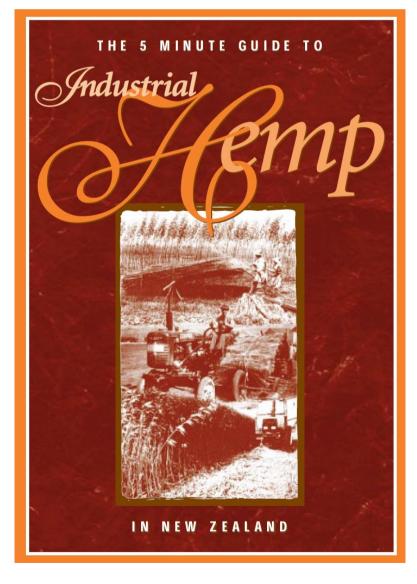
Investment in decortication and primary processing would enable enterprises to scale and enter markets for high and low tech industrial uses.

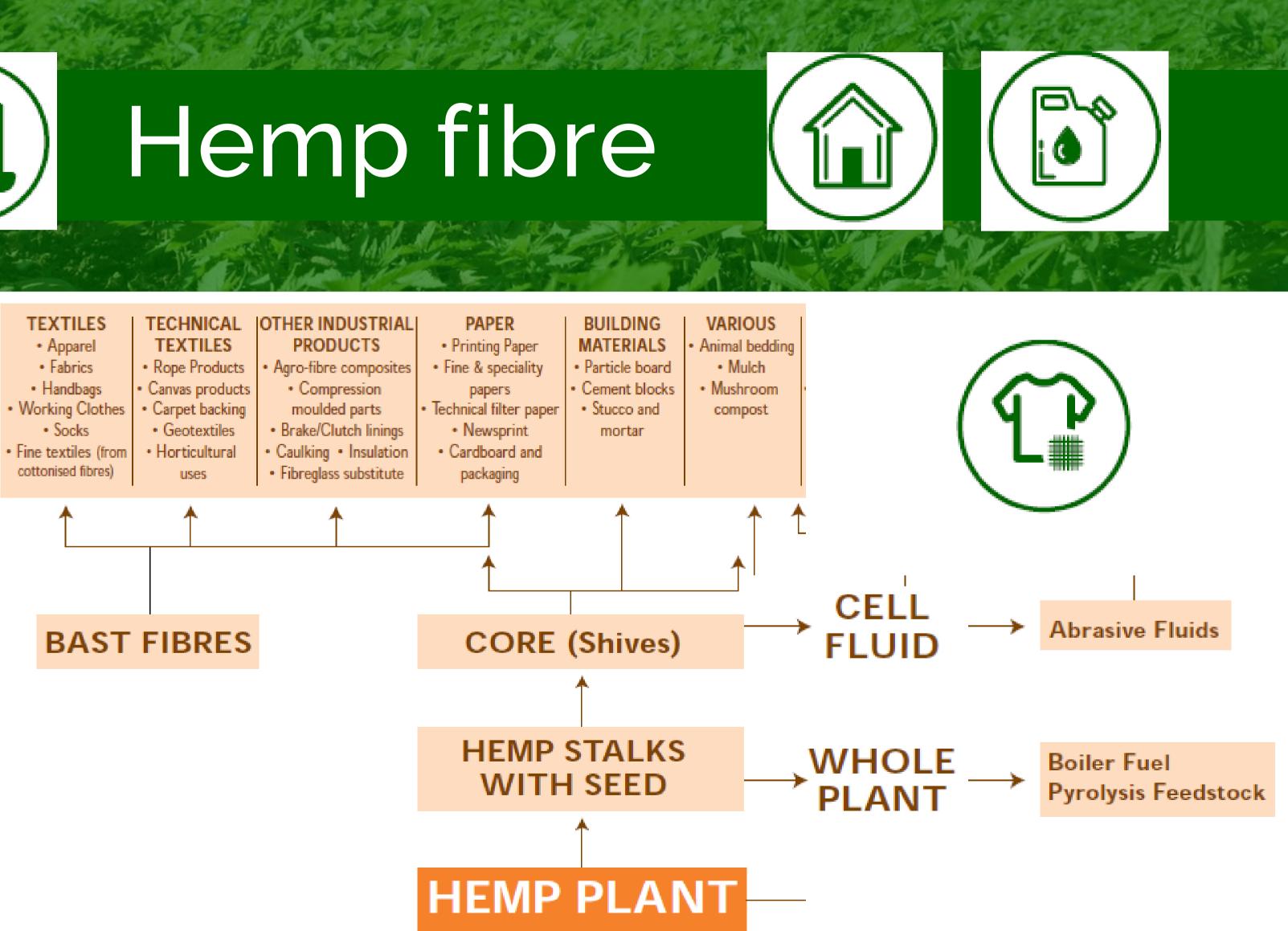


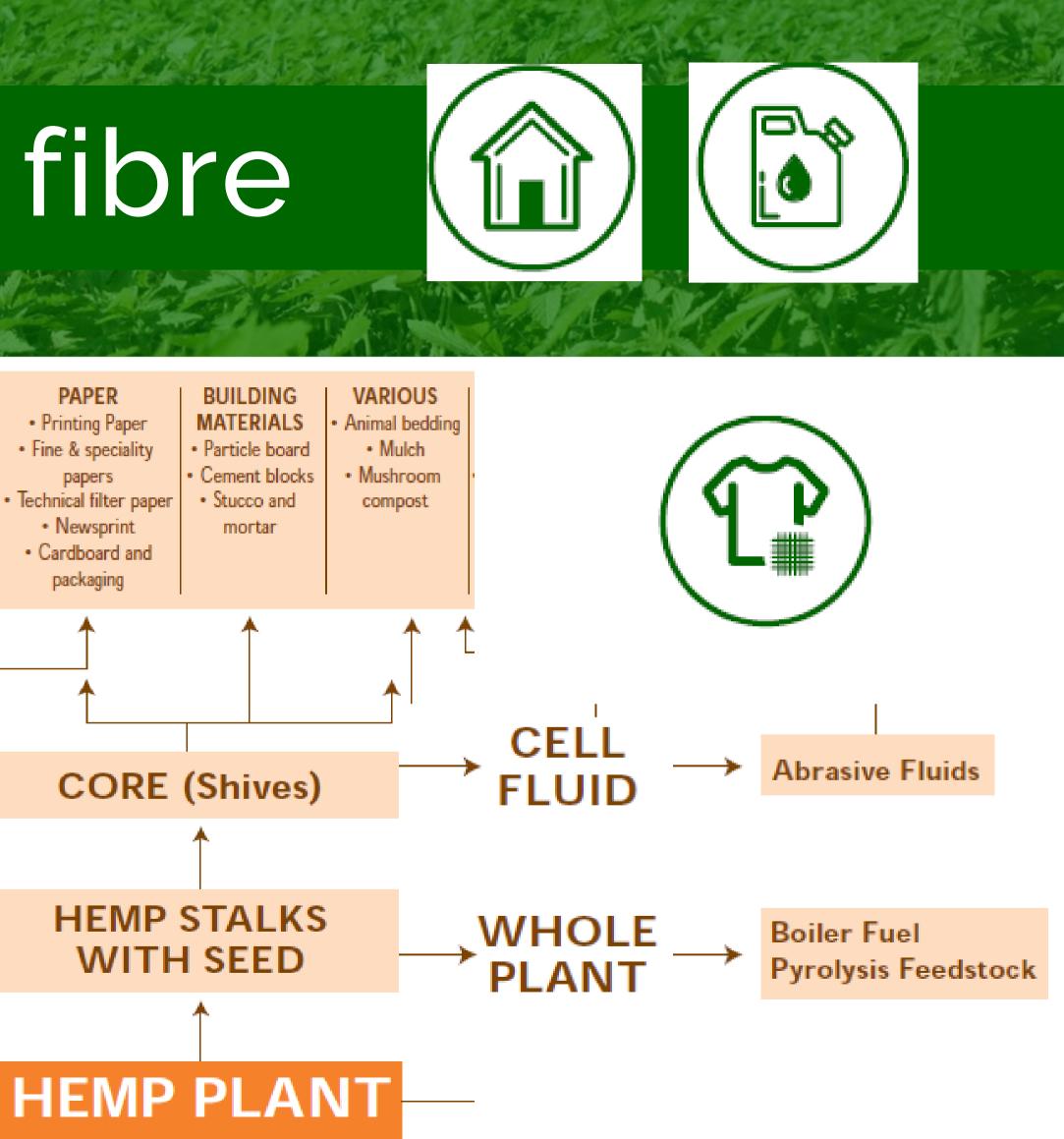
Collaboration with other primary sectors, such as

forestry and wool.











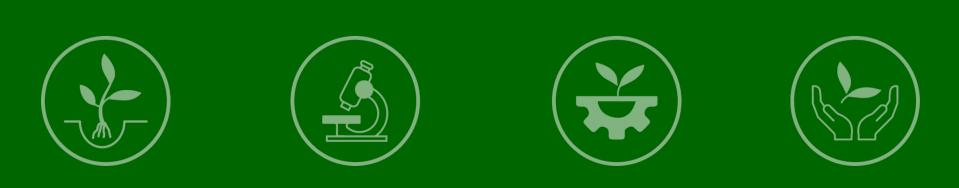
Hemp Construction Materials



Hemp Wool

hemp wool in rolls or panel

31 دى .



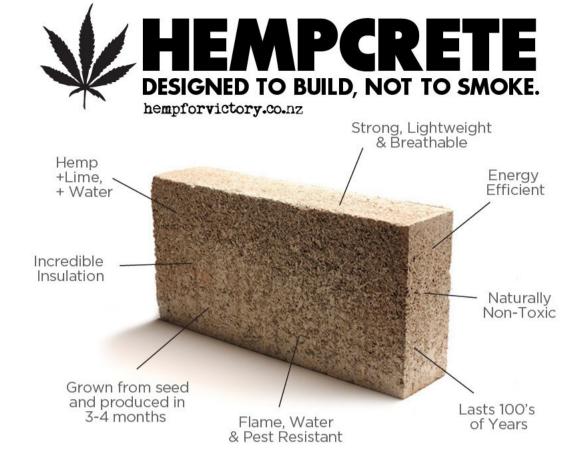
hemp mat

for flooring





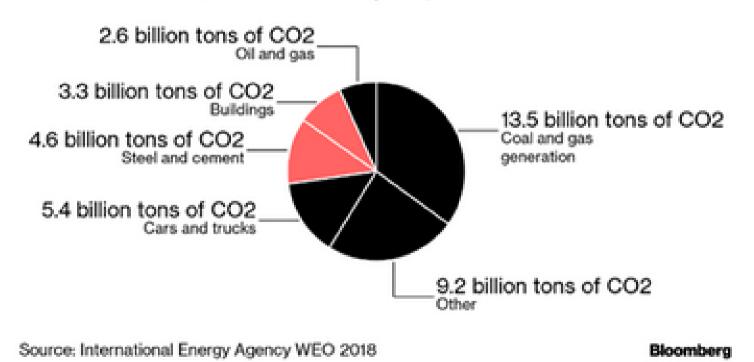
Hemp Building materials



CARBON NEGATIVE BUILDING MATERIAL.

Construction Pollution

Emissions from steel, cement and buildings outpaced cars and trucks in 2017









HempWood® Gazette March 2022





How can hemp be used in the HEALTH INDUSTRY:

Female plant cultivation for the emerging health and wellness industry, utilising cannabinoids, terpenes, and flavonoids as high-value fractions from locally grown crops for global niche markets. Working with Mānuka, Kakawawa and other native botanicals grown in New Zealand.

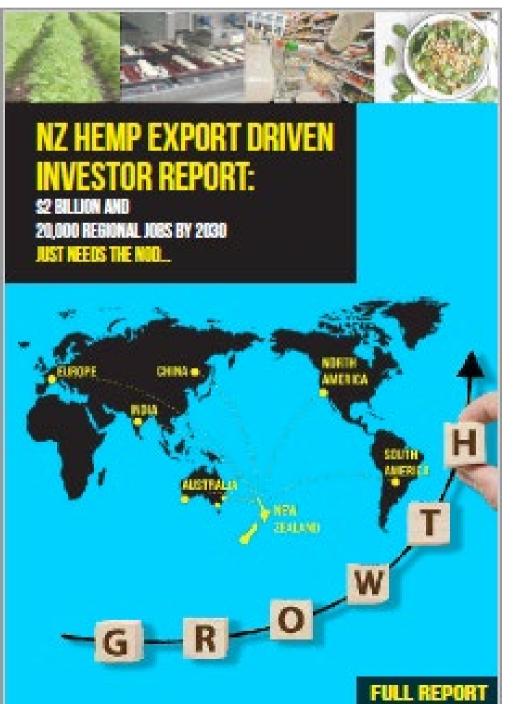


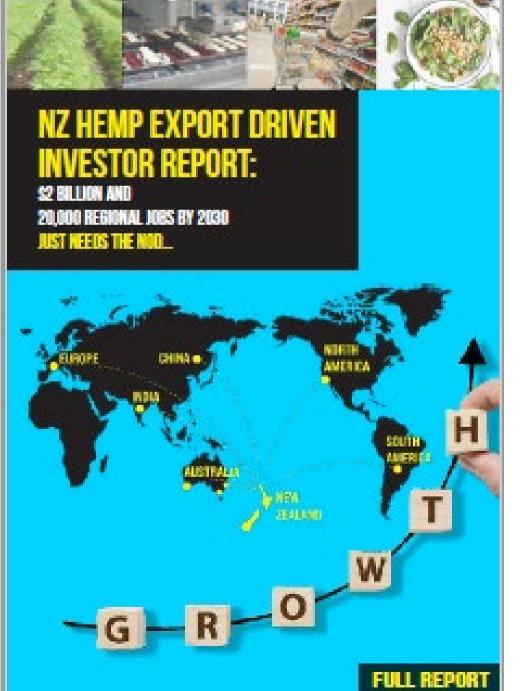


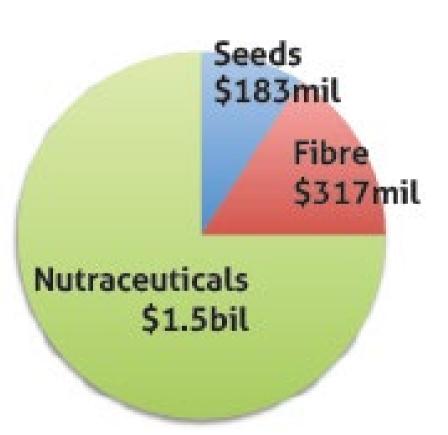
The NZHA WHY

A MPI 2021 report predicts Industry to grow from 3-5 million now to between \$11 to \$774 million by 2030. Their preferred scenario 2 gave a prediction of \$30 million by 2030

But the NZHIA's Senario 2 in our investor report highlights a \$2 billion opportunity by 2030 - We just need the right interpretation of the regulations







NZHIA Senario 2 \$2 Billion



It's time to unlock hemp's potential for Aotearoa.

SUSTAINABILITY

NUTRITION

BIOMATERIALS





Coming soon ... a new community building portal

HEALTH





The Next Step - We need a:

- Hemp Industry Strategy Reset
- Capability Development

Program



Tupu.nz: Fact sheets for industrial hemp

Callaghan Innovation New Zealand's Innovation Agency

Callahan Innovation: Capability Road Maps







All registered participants will go into the draw to win a hemp gift basket!

*T & C's apply, see nzhia.com





JOIN THE NZHIA

BEIN TO WIN

Sign up as an NZHIA member on the tour and go into the draw to win a Hark & Zander Luxury Gift Box

HARK@ZANDER

Hemp products valued at \$445







- Our mission is to promote the growth and development of the industrial hemp industry in New Zealand in all aspects. Now is the perfect time to become a member and be part of this growing industry.
- - Join at www.nzhia.com







Distributors and Consumers



To our sponsors





Food. Fibre. Health.