



Freedom To Create. Spirit To Achieve.

Hemp & Flax Grain Opportunities

Seed & Components

Government
of Alberta ■

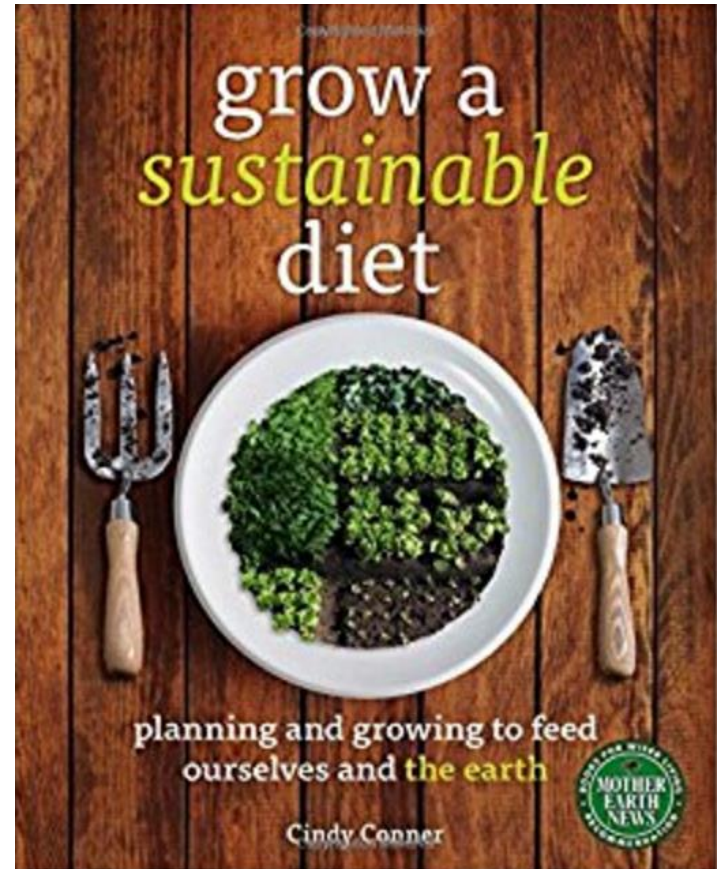
Why Consider Hemp & Flax?

- Increased demand for grain and fibre products from hemp and flax

		Products	
		Present	New
Markets	Present	Market penetration	Product development
	New	Market development	Diversification

- This offers producers options for crop rotations with excellent diversification opportunities if they are able to profitably meet the market requirements

Why Hemp & Flax Now?



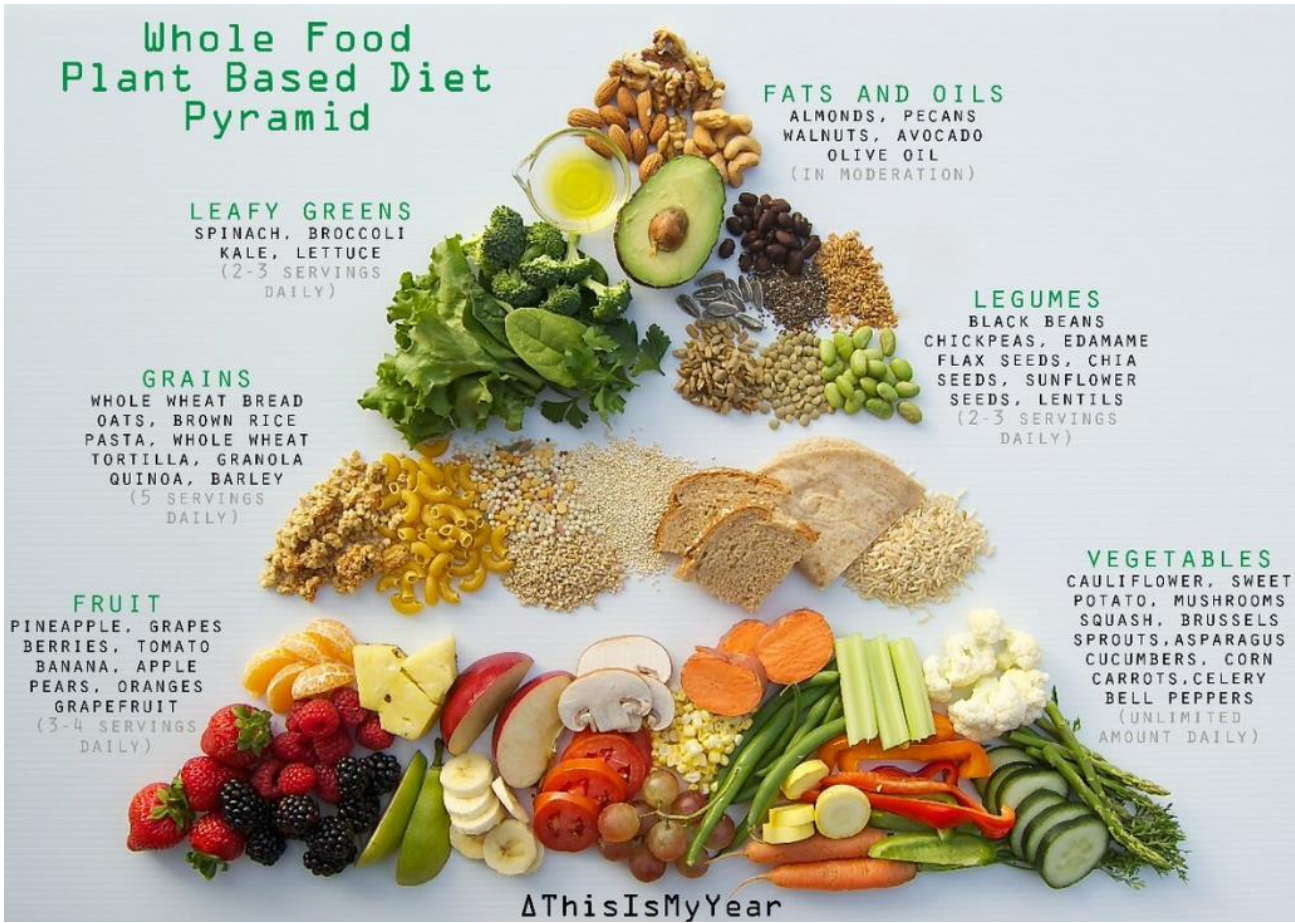
3 Seeds That Pack A Nutritional Punch

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Flax Seeds vs. Chia Seeds vs. Hemp Seeds

Lifestyle Trends:

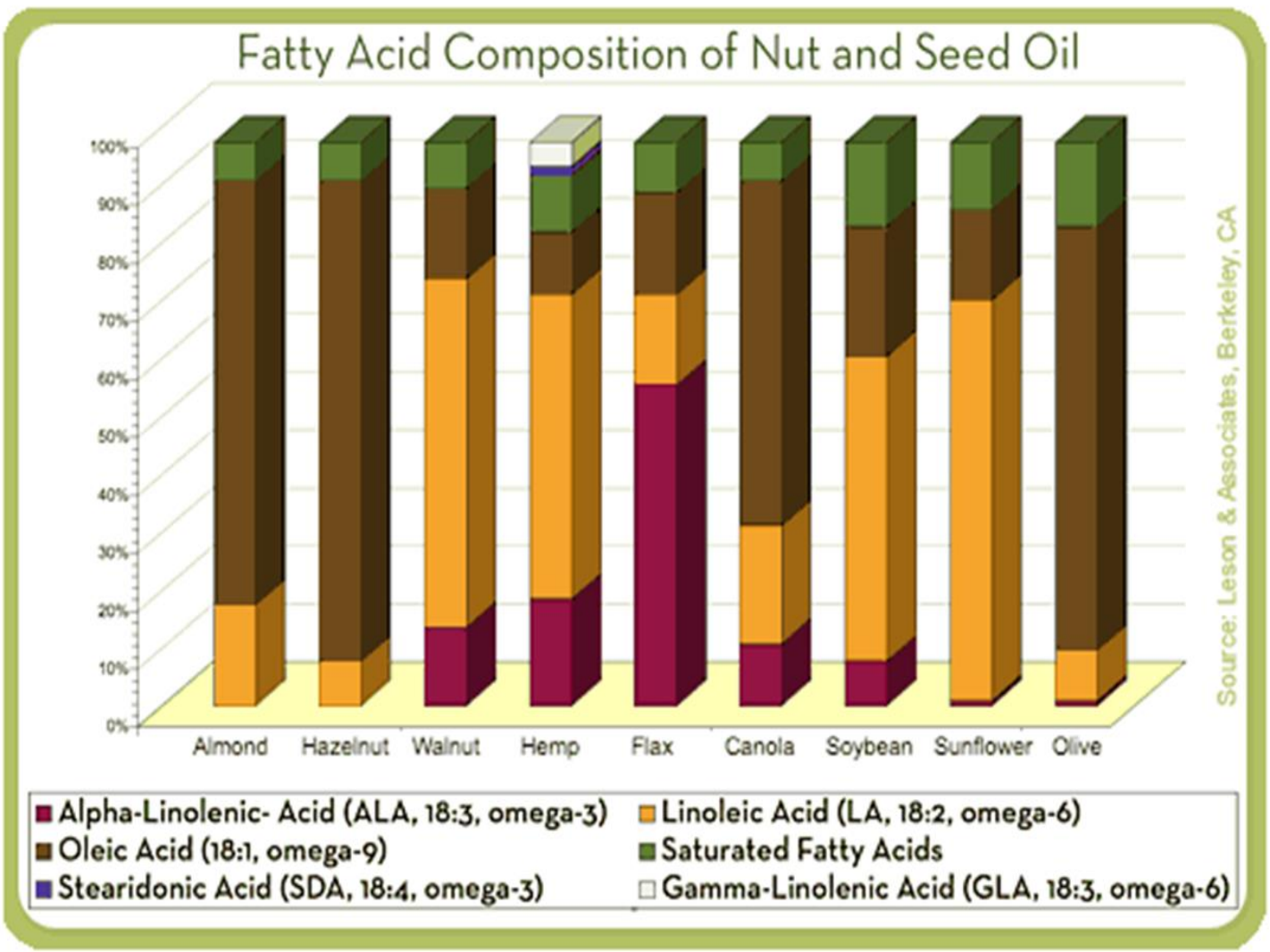


Quality based on:

- Flax:
 - Iodine value
 - Oil content
 - Protein content
 - Free fatty acids
- Hemp:
 - Not under the authority of the Canada Grains Act

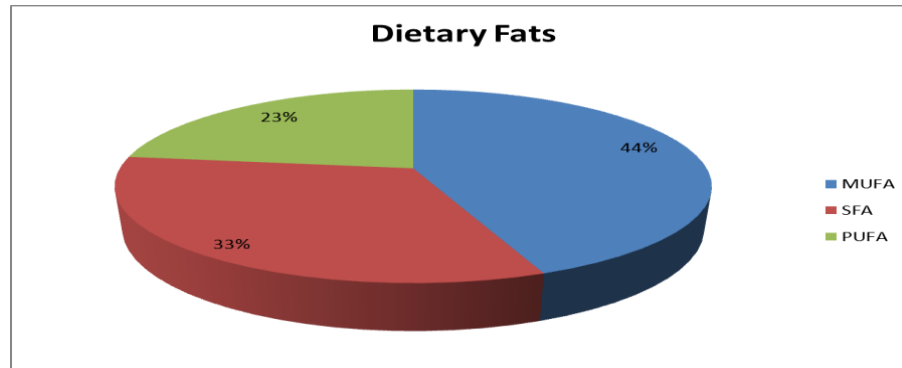


Hemp & Flax Comparison



The 3, 6 Omega's – Role of PUFA's

- Modern Western diets tend to contain a higher proportion (10-30X) of ω -6 vs. ω -3 fatty acids



- This imbalance is causally linked to a growing number of metabolic medical conditions e.g. cardiovascular disease, diabetes, arthritis
- Nutritionists recommend a 2:1 - 4:1 ω -3: ω -6 consumption ratio found in hemp and flax seeds

Hemp & Flax Nutritional Comparison

Per 30g/ 3 tbsp.	Omega-3 (ALA)	SDA	Omega-6	GLA	Protein	Fibre
Flaxseed	4.5 - 7.5 g	NA	2.1 g	NA	5.7 g	8.4 g
Hemp Hearts	2.5 g	128 mg	8.0 g	384 mg	11 g	3 g

- Flax seeds must be cracked or milled prior to consuming
- Hemp seeds can be eaten whole and are readily digestible

Gluten Free

- ∞ Gluten is a protein complex found in wheat, barley, rye, triticale
- ∞ Both flax and hemp are gluten free and are therefore suitable for celiac's and those with an intolerance to gluten
- ∞ Flax and hemp may be added to gluten-free products to add protein and fiber



Gluten free

Flax Seed Applications



Hemp Seed Applications



Hemp: Emerging Products



- ⌘ CBD are non psychoactive cannabinoids found in hemp leaves
- ⌘ Act on the endocannabinoid system and thought to exert an affect on the brain and immune systems to trigger healing and pain killing effects
- ⌘ CBD-enriched health foods, tinctures and oils may become the next revolution in food and medicine
- ⌘ Requires significant research to establish safety and efficacy
- ⌘ **Recent call on Health Canada to acknowledge the potential benefits of CBDs**

Hemp – Regulatory Requirements

- ∞ Industrial Hemp Regulations
 - ∞ enabled under the Controlled Drug and Substances Act
- ∞ Regulations apply to:
 - ∞ Importation, exportation and possession
 - ∞ Production, sale, provision, transport, sending or delivering of industrial hemp and it's derivatives (products)
 - ∞ Doesn't apply to retail



CANADA

Hemp – Regulatory Requirements

- ☞ Licensing applies to:
 - ☞ plant breeders, producers and processors

- ☞ Growers must be licensed and can only grow approved cultivars for their region
 - ☞ Viable grain can not produce a plant with > 0.3% THC w/w in its leaves and flowering heads
 - ☞ Testing requirements for IH to verify THC levels

- ☞ Seed or viable grain must be transported and stored in sealed tamper evident containers/packaging

Flax

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Flax growers try to flush Triffid from system

Posted Jan. 11th, 2013 by [Brian Cross](#)



<http://www.producer.com/2013/01/flax-growers-try-to-flush-triffid-from-system%E2%80%A9/>

Product & Process Certifications



Certified



Gluten-Free®



OU Kasher Certification

Hemp & Flax Opportunities

- ‘Many of the difficulties with industry development stem from the fact that supply chain relationships are not yet fully developed ...’



- ‘Demand for the end product is obviously the key to the development and success of the market.’

Meeting Customer Requirements



Are you a processor or producer entering a new market?

Not sure if you can meet your customer or regulatory requirements?



Use this free online resource to help you get on your way.

agriculture.alberta.ca/customer-requirements

Growing Forward 2 
A federal-provincial-territorial initiative

Alberta
Government

Canada

Meeting Customer Requirements is a free online resource that Alberta Agriculture and Forestry will launch in spring 2017. It will be announced on Call of the Land/Agri-News when it is available. For information on the E resource contact Kellie Jackson at kellie.Jackson@gov.ab.ca or 403 948 8538.

If you have questions ...

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