



Educate, Innovate, Cultivate: Industrial Hemp

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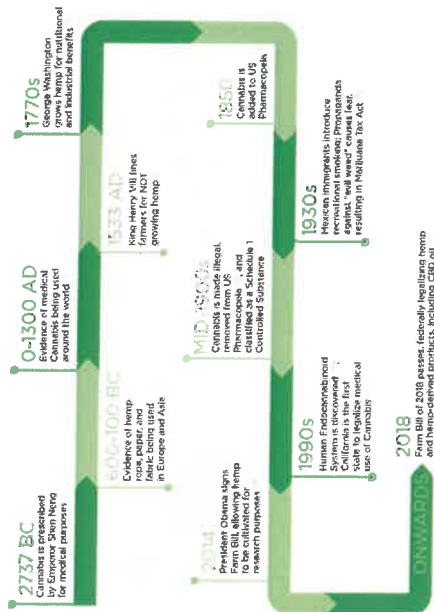
History of Industrial Hemp

LOVED BY OUR
FOUNDING FATHERS

North America was first introduced to hemp in 1606. Ever since, American farmers grew hemp that was used across multiple different products, such as paper, lamp fuels, and ropes. In the 1700s, farmers were even legally required to grow hemp as a staple crop. Many of our founding fathers grew hemp and advocated its uses and benefits. Most notably, Thomas Jefferson wrote the draft of the Declaration of Independence on hemp paper.

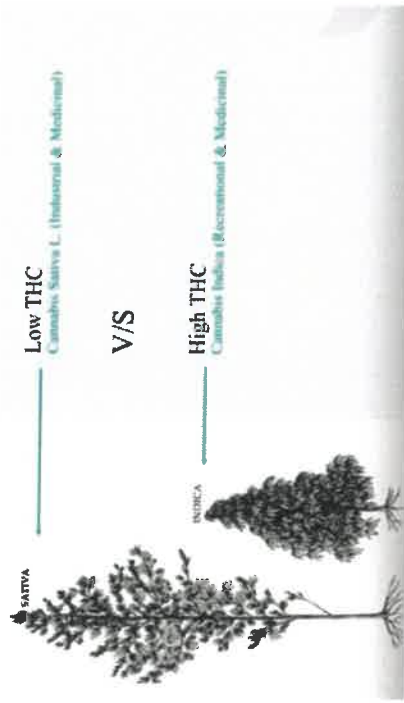
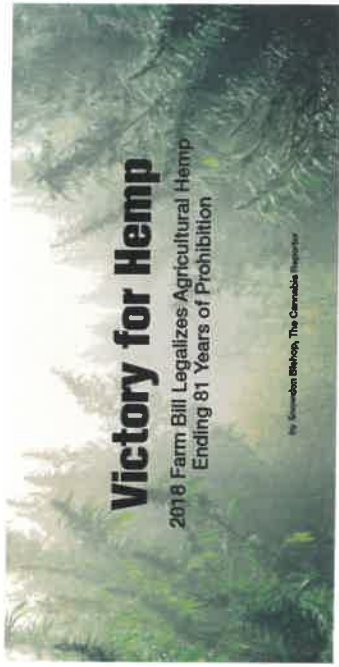


A HEMP TIMELINE



1) Cannabis is prescribed by Emperor Shen Nung for medical purposes. 2) Evidence of hemp fabric being used in Europe and Asia. 3) Cannabis being used around the world. 4) King Henry VIII laws. 5) North America first introduced. 6) George Washington. 7) Cannabis is removed from US Controlled Substances. 8) President Obama signs hemp research purposes. 9) Human Endocannabinoid System is discovered. 10) Hempcrete introduced. 11) Hempcrete introduced. 12) Farm Bill of 2018 passed, federally legalizing hemp and hemp-derived products, including CBD oil.

<https://www.procana.com/blog/hemp-history-timeline/>



“The most important thing about this plant is its
_____ versatility.” **Trey Riddle, PhD, CEO and Founder, Sunstrand**

Plastics

500,000 tons per year of bio-plastic

Car makers using hemp plastic include Mercedes, BMW, Audi, Ford, and GM

Mercedes C-Class cars contain 20 kg hemp



Created by Motive Industries Inc, Canada

Paper


1 acre hemp = 4 acres trees

20 weeks vs 20 years

1% of farmland, (20 million acres) would replace wood pulp and deforestation



<https://www.youtube.com/watch?v=kvda9tgowlLQ>



“It’s [hemp] going to be something that is going to replace all of our Styrofoam, our plastics, and our paper... it is going to be what I call an industrial revolution in our state and across the country, and it’s all biodegradable.” Nikki Fried, Commissioner of Agriculture. July 2019

Companies on board the Hemp Train



'GROWN FROM THE SOIL'
Ford's HEMP CAR

One of Henry Ford's first cars ran entirely on **Hemp ethanol**. The body was also constructed from **Hemp plastic**, which was **10x stronger than steel**.

Of course - Hemp was then outlawed in the US in 1937 due to its potential damaging effect it would have on many powerful industries at the time, including the oil, plastic & paper industry.

Imagine where we would be today had these pioneer 'hemp' brands not suppressed the amazing biotechnologies of Hemp?

Hemp for Victory.

hempforvictory.com



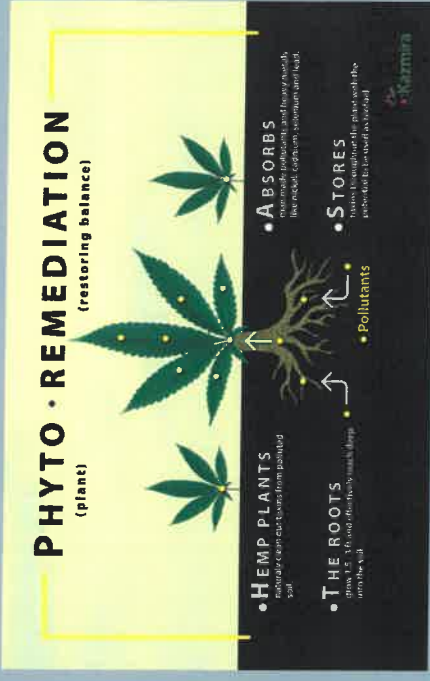
- <https://www.patagonia.com/blog/2019/05/hemp-is-back/>
- <https://www.theextract.co.uk/lifestyle/sustainability/lego-g-hemp/>
- <http://hemptek.org/tag/henry-ford-hemp-car/>
- <https://truththeory.com/2019/05/10/levis-is-using-hemp-in-new-line-of-sustainable-clothing/>

Can Hemp Clean Up the Earth?

Scientists are looking at how hemp could clean contaminated soil – further proving it to be a miracle plant

RollingStone

- Study supported by the Pennsylvania Department of Ag, August 2019
 - 2.5 times more nitrogen in plants pulled from coal mines compared to plants in greenhouses
- Colorado State University study, 2017
 - Hemp absorbs selenium from ground
- Currently being used at Chernobyl to reduce soil toxicity



<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6715179/>
<https://pdfs.semanticscholar.org/be73/67037951a4765c845b9e28a3439491da710.pdf>

Opportunities for Economic Development

- 15,498 people in Florida held jobs in the cannabis industry in 2019
 - 5,000 increase in 1 year
- Processing plant will bring in 30-100 jobs
- Processing plant in North Carolina (right) brought in 30 jobs

<https://www.hempinc.com/build-industrial-hemp-fiber-processing-plant/>
<https://highgreennews.com/article/how-many-jobs-has-cannabis-industry-grown-florida-new-study-adds-them>



Why Hardee County?

The Farmer

The Land

The Community

Farming Hemp

Hemp thrives in most growing conditions

- Relatively easy to grow, grows like corn or other existing cropping systems
 - 400,000/acre (100 plants a square meter)
- Pest and disease resistant
- Drilled in like wheat
- Uses little water, needs little caretaking
- Growing cycle is approximately 108-120 days
 - grows 6ft-15ft

<https://industrialhempfarms.com/hemp-farming-guide/>

Mosaic and Fallow Land

- Hardee County = 638 square miles
- Mosaic has over 26,000 acres of land in Hardee for mining, creating “reclaimed land” after mining process
 - Hazardous materials in soil = phytoremediation opportunities with hemp
 - Hemp grows well on reclaimed land
- Thousands of acres of fallow land due to Citrus Greening Disease

Community Involvement

- Economic Opportunities:
 - New jobs
 - New facility in Commerce Park
 - Helping the environment, Saving the world
 - Carbon Tax Incentives
 - First hemp processing plant in Florida