



***Revolutionizing Industry: Transforming the Future with I-Hemp Katalyst –
From Destructive to Renewable, Healing Our Environment***

Hemp Engine Presentation 2024

Private & Confidential

PLANTING, GROWING & UNDERSTANDING



- ✓ Invested in growing 200 acres and 9 separate cultivars Lat 40°02
- ✓ Collected data on planting depth, germination, row spacing, weed control, quality and quantity of fiber and hurd
- ✓ Planted in May and July
- ✓ Researched and gathered manufacturer specifications from those importing fiber from overseas
- ✓ Contacted manufacturer that met our replacement threshold
- ✓ Our findings highlighted that the US is not producing the quantity or quality
- ✓ We began compiling specifications from each and storing them in metaihemp.com

Dry Spell May to July



Rain in July Spawn Growth



2 Months Average Height 9'8"



HARVESTING



- ✓ By August, most cultivars grew ~13.4 FT
- ✓ Fabricated a two-bar cutter
- ✓ Leased and tested multiple mergers/rakes
- ✓ Purchased a hemp baler from McHale



CULTIVARS RESULTS



Lat 40°02

- ✓ Asian Varieties were most stable and consistent for both hurd and fiber
- ✓ Australian had solid results and like Asian cultivars
- ✓ French cultivars produced high quality and stronger fiber and hurd
- ✓ Polish cultivar performed poorly in this region
- ✓ United States performed very well for grain not for fiber or hurd



Chop Test



2 Month Observation

MICRO PROCESSING



- ✓ Tested various retting techniques
- ✓ Tested various separating techniques
- ✓ Tested mechanical non mechanical degumming, cleaning combing and carding
- ✓ Create various specification to match manufacturer specification
- ✓ New farmer centric model required



MANUFACTURING MATCH



- Raw Green Fiber
- < 15% Moisture
- <5% Hurd

Textile



Car Panels

- 70 – 150MM Fiber
- < 5% Moisture
- <5% Hurd
- Opened



Fluid Absorption

- .1 MM Hurd
- < 5% Moisture
- <5% Fiber



Construction

- 19-21MM Hurd
- < 5% Moisture
- <5% Fiber



**- Building Material
- Bio Plastic**

- 60 Mesh Hurd
- < 5% Moisture
- <5% Fiber



Raw Hurd



Woven

- 609MM
- < 5% Moisture
- <5% Hurd



Woven

- 203MM
- < 2% Moisture
- <0% Hurd
- Opened
- Combed
- Degummed



Insulation

- 22-32MM Fiber
- < 5% Moisture
- <5% Hurd



Battery

- .09 MM Fiber
- < 2% Moisture
- <2% Hurd



- ❑ 1000-1500 across across 4 Cultivar and multi state(PA, VA, MD LA)
- ❑ Deploy a new machines to produce long fiber
- ❑ Farmer centric model for processing
- ❑ More centralized fulfillment and transportation hub
- ❑ Large land remediation efforts
- ❑ 3 current hemp-based manufacturer fulfillment
- ❑ 2 R&D hemp-based manufacturers fulfillment
- ❑ 3 new hemp-based manufacturer fulfillment

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