

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

Hemp Engine Presentation 2024

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 preformed 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



70 - 150MM Fiber

- < 5% Moisture
- <5% Hurd
- Opened



.1 MM Hurd

- < 5% Moisture
- <5% Fiber

Car Panels



Construction

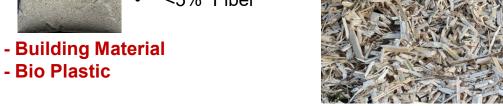
19-21MM Hurd

- < 5% Moisture
- <5% Fiber



Fluid Absorption

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



Raw Hurd

Textile

Woven

< 5% Moisture

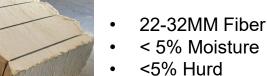
609MM

<5% Hurd



- Bio Plastic

Insulation





< 2% Moisture

.09 MM Fiber

<2% Hurd

Woven



Bio Fuel

Battery



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



- □ 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

CONTACT US







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