

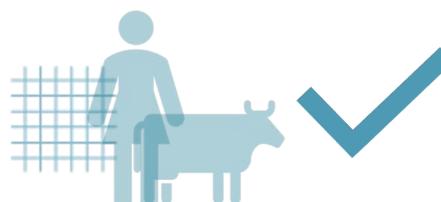
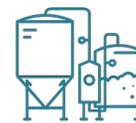
# NEW WEST GENETICS

IND Summit

# Hemp Industry Challenge –a miniscule Acre/Value crop competing with commodities that are entrenched

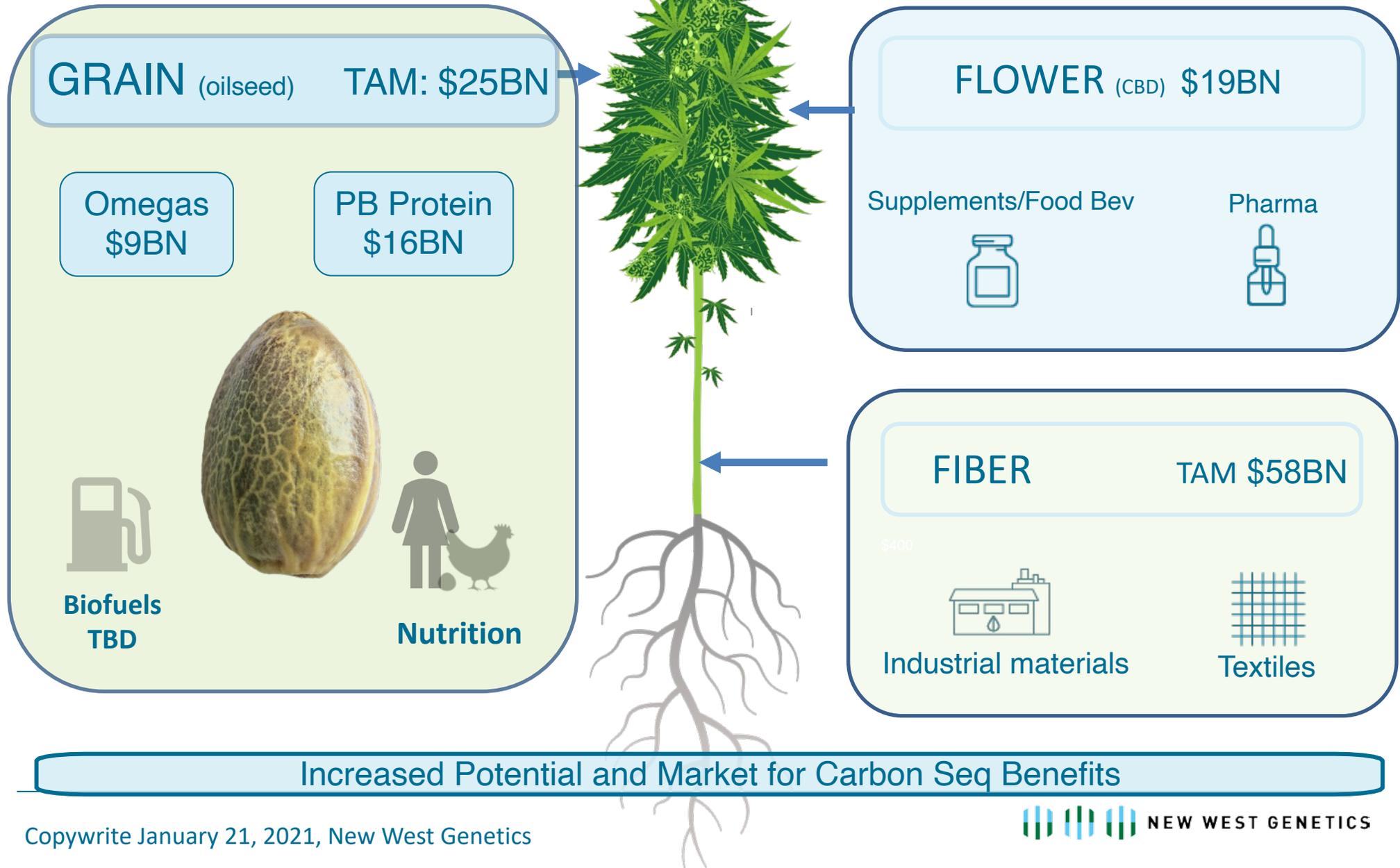
2020/2021	Soy	Corn	Wheat	Cotton	Sorghum	Hemp
Wholesale \$\$	46BN	61BN	9.3BN	4.7BN	1.5BN	800MM
Acres	82MM	88MM	46MM	11MM	5MM	97,000

## Established Stable Supply Chain



**Commodities have established genetics, production, ingredient formulations, markets –  
LOW RISK proposition for growers**

In order to compete, must Market ALL PARTS of the plant, their market differentiators compared to traditional crops



# Don't forget the Grain Message:

Hemp is an Ingredient with the **same** essential Amino Acids as traditional sources, with **high quantities** of **unique** and healthy Omegas, from a price competitive, **more sustainable** crop!



**Win Win for both Health and Sustainability**





## About and Mission

HFC: Industry professionals across animal feed, animal supplements, feed analytics, veterinary science, hemp processing and hemp production that engage with industry and regulators to gain federal regulatory approval for the use of hemp in animal feed.



**Help Us Increase Hemp Markets and Increase Sustainability and Quality of Feed!**



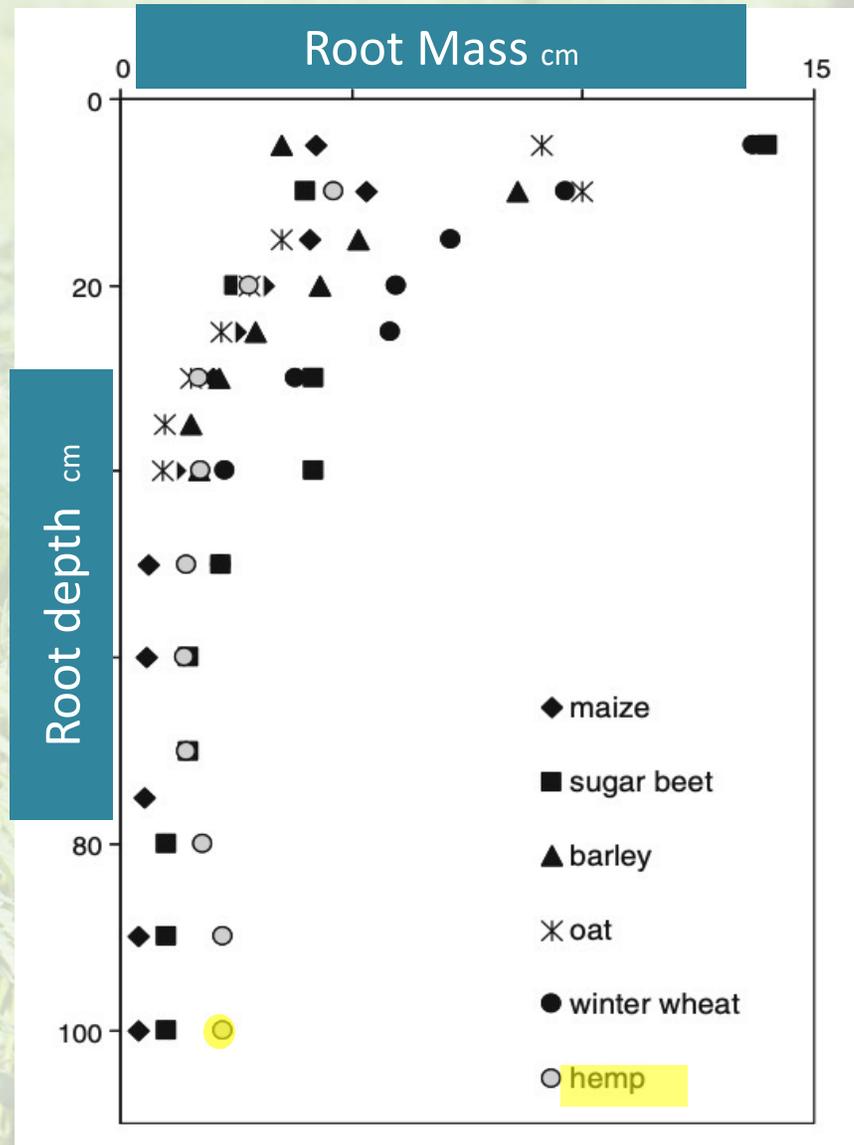
HFC:

- Raises funds to support applications to FDA and AAFCO for use of hemp grain in feed.
- Collaborates with University professors on needed research
- Provides general education to the public about hemp nutrition
- Educates the hemp industry on the regulatory needs and process

**We Need You!  
Donate:**

**[Hempfeedcoalition.org](https://hempfeedcoalition.org)**

# Crop Comparison of Root Systems; Larger roots=more carbon stored



Root biomass below 50cm results in much longer sequestration time – can be decades

## Estimated data points:

- Potential Sequester of 7.4 tons of CO<sub>2</sub> per hectare
- Hemp Potential net negative 3.5kg CO<sub>2</sub>/kg grain

Dr. John McKay NWG CSO, Research performed at CSU through ARPA-E grant concludes:



CSU professor of genetics, 20+ years research & publication across genetics and crop carbon sequestration

**50% of hemp's root biomass is below 50cm potential decades of storage**

**Hemp Provides More Soil Carbon Sequestration Potential than Any Other Row Crop**

# NWG has been breeding hemp for US since 2014: 2021 NWG Breeding and Agronomic Trial Subset



Canadian Breeding Plot - BC

Sept 8, 2021



CO - Yield and Agronomy Trials

July 8, 2021



CO Strip Trial

July 17, 2021



July 17, 2021

CO Strip Trial



MN - Breeding Plot

Sept 1, 2021



CO- Low water stress -sandy soil

July 17, 2021

# NWG AMPLIFY™ Hybrid Technology (Double Yield) Enables Ingredient Adoption

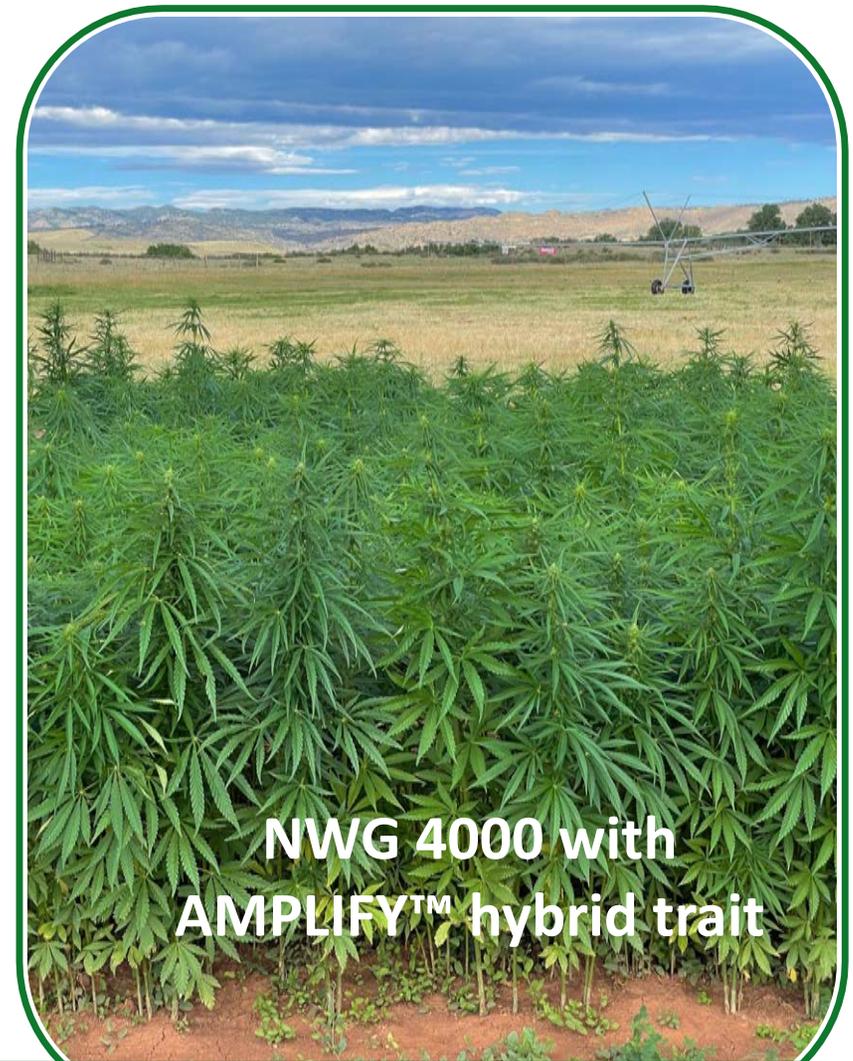
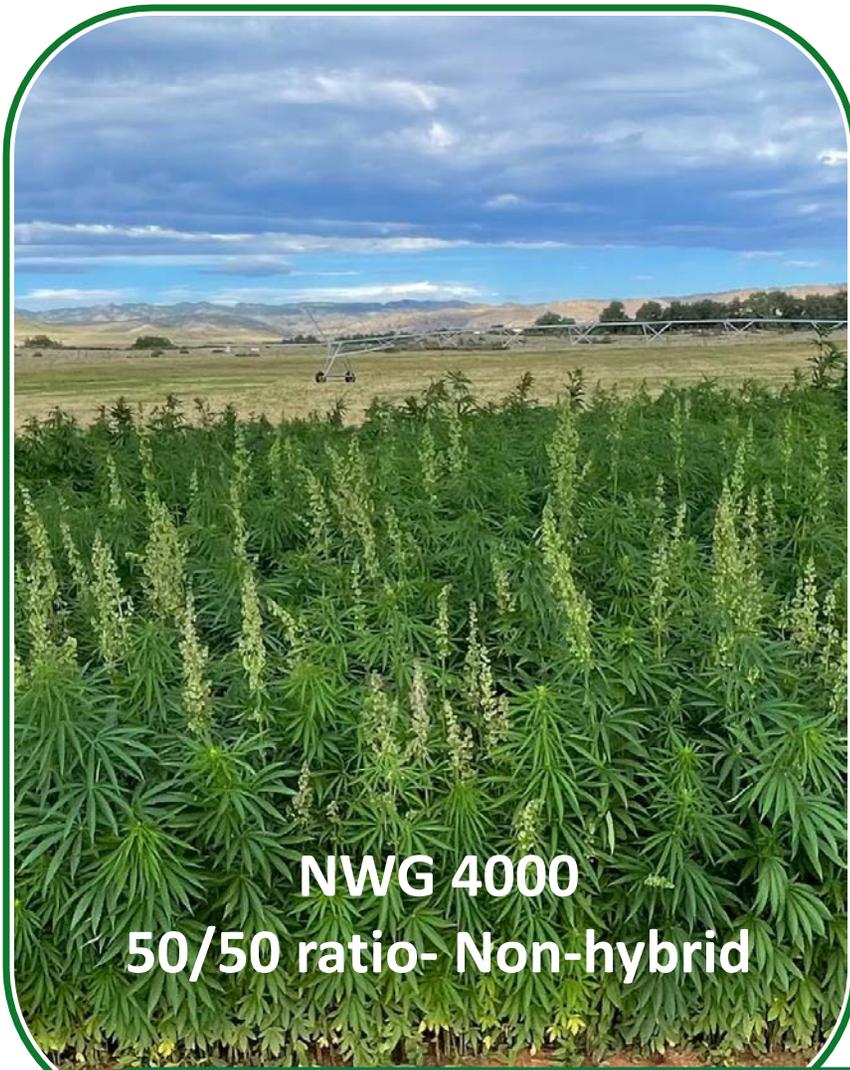


In 18 months, NWG will launch the most cost-effective hemp seed in the market, Because of increased yield, it will drive adoption by growers, processors and ingredient manufacturers



**AMPLIFY™ trait**

# Mature Crop Comparisons – NWG Trials Aug 5, 2022



**AMPLIFY™ trait: ~2x increased grain/flower yield, plus hybrid vigor. What we don't know: fiber increase? Better stalks? Please share your thoughts with us: [wmosher@newwestgenetics.com](mailto:wmosher@newwestgenetics.com)**