



Simply Diversify

A Farmers Perspective

By Edward Hanbidge

Keadeen Mountain Farms



- 550 acres (altogether)
- Sheep & Sucklers (Dexter)
 - 750 ewes & 130 cattle
- Certified Organic

- Hemp Cultivation
- Agri Tourism
- Hemp Seed Oil

Plough



Till and Sow



2 weeks



6 weeks



42 days - 3ft



28th of July 2018



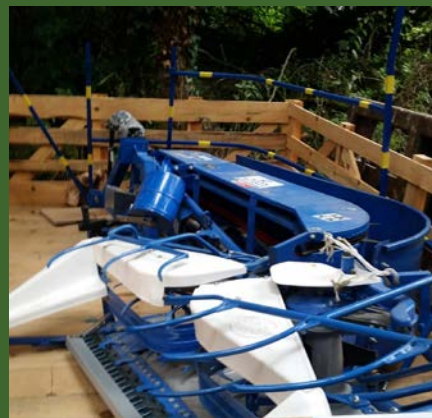
Fiber Crop



Combine Seed



Binder & Stripper



Agricultural Benefits to the Farmer

- Easy to grow
 - Use traditional methods of ploughing, tilling, sowing
- Pest resistant
 - Reduction or Elimination of pesticides
- Weed suppressant
 - Reduction or elimination of herbicides
- Drought resistant
- Soil improvement
 - Tap root airates and mines nutrients
 - Returns $\frac{2}{3}$'s of the organic matter if field retted
 - Increased yield for following crops, increase in nutrient uptake
 - Removes heavy metals and toxins
 - Disease prevention
- Crop diversification
 - Seed
 - Fibre
 - cannabinoids
- Environment
 - Pollen insulator
 - Carbon sequestration

Conventional

Can use chemical fertilizer

20% higher yield

Can spray off before sowing

Doesnt need pesticides or herbicides/fungicides/insectisides

Can get BPS payment

V

Organic

Cannot use chemical fertilizer

Only slurry/FYM used or a ploughdown crop

No pesticides or herbicides or fungicides or insectisides

NO ORGANIC PAYMENT !!

Farmer Needs

- Profitable - rural & economic development
 - Potential to earn =< €4000/ac
 - Empower farmers
 - High Demand outweighs supply/domestic production
- Sustainable - timber & oil replacement
 - Food/Nutrition
 - Feed/Fodder
 - Fuel/Lubricants
 - Cosmetics
 - Building
 - Bioplastics
 - Paper
 - Textiles
- Viability -
 - Catch crop, (bird cover)
 - Break Crop,
 - Protein Crop,
- Soil, Water, Air - Natural resources
 - soil remediation,
 - soil rejuvenation
 - Water purification
 - Carbon sequester



SEEDS

FOODS ✓ Granola ✓ Birdseed	SEED CAKE ✓ Animal Feed ✓ Protein-rich fiber
Hempseed Oil	
FOODS ✓ Salad Oil ✓ Margarine ✓ Food Supplements ✓ Vitamins ✓ Cooking Oils	
INDUSTRIAL PRODUCTS ✓ Oil Paints ✓ Varnishes ✓ Print Inks ✓ Fuel ✓ Putty ✓ Lubricants ✓ Coatings	PERSONAL HYGIENE ✓ Soap ✓ Shampoo ✓ Bath Gels ✓ Cosmetics ✓ Lotions ✓ Balms

LEAVES / FLOWERS

CBD ✓ Medicine ✓ Recreation ✓ Sacrament	Cell Fluids ✓ Abrasive Chemicals
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Hemp - AGRICULTURAL BENEFITS

	✓ Weed suppression	✓ Less need for pesticides than most crops	✓ Whole Plant
	✓ Pollen isolation	✓ Soil improvement in crop rotation	✓ Pyrolysis Feedstock
	✓ Deep roots are natural soil aerators	✓ Boiler Fuel	

STALK / STEM

	Bast Fibers
	INDUSTRIAL TEXTILES ✓ Twine ✓ Rope ✓ Nets ✓ Canvas ✓ Tarps ✓ Carpets ✓ Caulking ✓ Geotextiles ✓ Agro-Fiber Composites & Molded Parts ✓ Brake/Clutch linings
	CONSUMER TEXTILES ✓ Apparel ✓ Diapers ✓ Fabrics ✓ Handbags ✓ Denim ✓ Shoes ✓ Fine Fabrics

ROOTS

	MEDICAL BENEFITS Hemp root has been used in folk medicine for millennia, and contains several compounds that may be of medicinal value to many modern ailments, including:	
✓ Inflammation	✓ Pain	✓ Arthritis
✓ Torticollis (Wry Neck)	✓ Hemorrhoids	
✓ Fever	✓ Dysentery	✓ Burns/Cuts
✓ Stomach Problems	✓ Dermatitis	
✓ Menstruation Pains	✓ Bronchitis	
✓ Asthmatic Problems	✓ Sprains	
✓ Migraine/Headaches	✓ Acne	
✓ Muscular Pains and Cramps	✓ More!	

Hurds (Pulp)

	BUILDING MATERIALS ✓ Animal bedding ✓ Cement ✓ Fiberboard ✓ Insulation ✓ Fiberglass Substitute ✓ Mulch and Compost ✓ Stucco & Mortar
	PAPER ✓ Printing Paper ✓ Newsprint ✓ Fine/Specialty Paper ✓ Cardboard/Packaging ✓ Filter Paper

Hurds (Pulp) & Bast Fibers

Hemp Food and potential markets

Whole Hemp Seed



Hemp Hearts



Hemp Food and potential markets

Hemp Oil



Hemp Milk



Hemp Flour



Hemp Food and potential markets

Hemp Pesto



Hemp Cake



Hemp Drink and potential markets

Hemp Gin



Hemp Beer



CAP

Pillar I - Direct Payments

Schemes

- BPS - payment for hemp
 - Stabilize revenue
 - Volatile markets
 - Price fluctuations
- Greening
 - Ecological transition
 - Biodiversity
 - Low carbon future
- Young Farmer & National Reserve
- Protein Aid

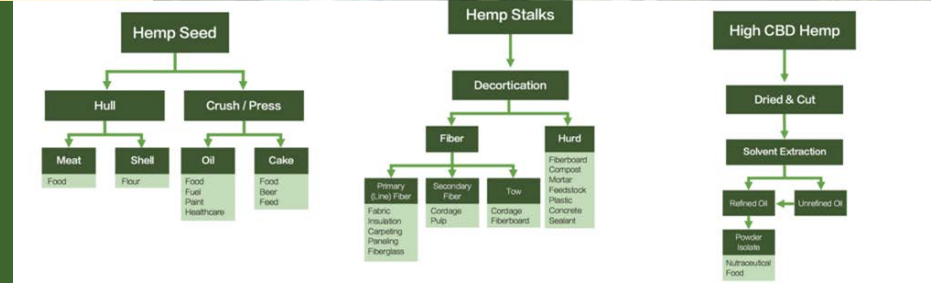
Pillar II - Rural Development

- TAMS
 - Hemp Machinery
 - Hemp Equipment
- GLAS
- ORGANIC
 - NO PAYMENT for HEMP
- KNOWLEDGE TRANSFER
 - Hemp farmers need education
- ECO - Schemes

How you “canna” help!

Government / Industry / Private:

- Infrastructure
- Education
- Genetics
- Market Development
- Policy Frameworks





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Hemp Working Group

