



Project

PROPOSAL

CBD HEMP VARIETAL STUDY

A Proposal To:

PRESERVE CRAFT HEMP PRODUCTION

SEASON 2020



INTRODUCTION

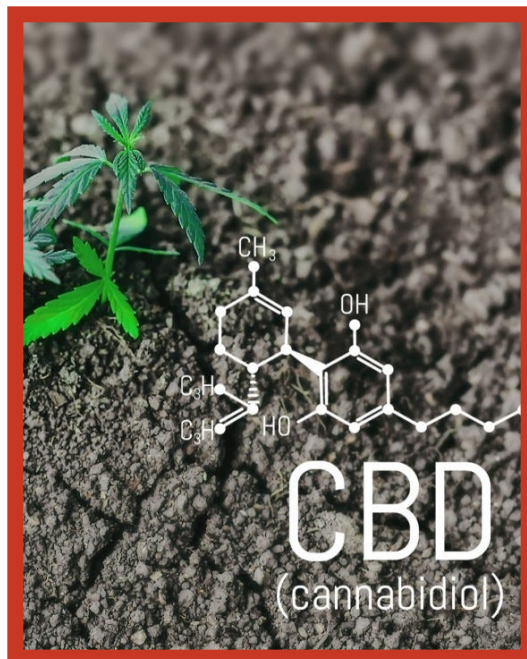
*PRESERVE CRAFT HEMP PRODUCTION
SEASON 2020*

Hemp-derived CBD has taken over the nation, but not all hemp is created equal. Industrial hemp is a strain of Cannabis Sativa L. grown for its fibers and seeds which are used to make textiles, nutritional products, and building materials. This makes industrial hemp resourceful and useful, but is it truly medicinally-potent and cannabinoid-rich? Not so much. Industrial hemp, the current source of most CBD products, is a low-resin plant that contains less CBD and terpenes than medical marijuana. However, with cannabis still illegal for medicinal or recreational purposes in seventeen states at last count, craft hemp represents a bridge between medical marijuana which is cannabinoid and terpene-rich, and industrial hemp, which isn't.

Craft hemp is a new term meant to highlight small-scale production methods. Hemp's image is going through a radical makeover and craft hemp grown organically in small batches for therapeutic purposes, rich in the cannabinoid cannabidiol (CBD) is leading the change. The craft hemp movement could be likened to the craft beer movement, with values oriented towards micro-production, attention to technique, and high-quality products. Currently, craft hemp in the U.S. is being cultivated to create high-quality full-spectrum CBD products, edibles, vapes, tinctures, salves, and topical body rubs.

Industrial hemp grown for fiber and seed is threatening the craft hemp movement. A heightened emphasis on seed-free female flowers, which generate CBD in greater abundance, for craft hemp production is at risk of cross-pollination by industrial hemp, which pollen rich males are not removed throughout cultivation for fiber and seed. As the hemp industry grows in acreage nation wide these small-scale craft hemp producers run the risk of losing entire crops as the

pollen from neighboring industrial hemp farms can degrade the quality of their female flowers if they become pollinated and prioritize growing seed over producing cannabinoids. Many ideas have been discussed about creating buffer areas between farms, designated areas miles apart for cultivating the different crops, but these ideas are very limiting on the newly developing industry and could place unfair restrictions on farmers. If only we could eliminate these potential burdens and still grow together...



A solid solution is on the horizon. We have come across a variety of hemp that is cannabinoid and terpene rich, harvestable before the pollen rich males from industrial hemp have a chance to flower and can save the craft hemp industry. Our hope is that you will join us in testing the un-tapped potentials of this rare variety.



PROJECT DESCRIPTION

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Seed to harvest in just 75-80 days. Auto-flowering (day-neutral) hemp varieties automatically switch from vegetative growth to the flowering stage with age, as opposed to the ratio of light to dark hours required with photoperiod dependent/short-day strains. Dwarf varieties can have short stature, around 1 - 2 feet tall and typically yield 4 - 5 ounces per plant. When planted more closely together (approximately 10,000 per acre or 1 - 2ft. spacings) these strains can yield similar to photoperiod strains per acre. This requires more labor though, with planting and maintenance than photoperiod strains due to twice the number of plants, given that most photoperiod dependent strains are planted at approximately 5,000 plants per acre (yielding 1/2 - 1 pound per plant). Conversely "super autos" can reach 4 - 8 feet tall, since they spend more time in a vegetative state than their dwarf cousins, but still finish in a similar amount of time. "Super Autos" are planted at similar spacing as photoperiod dependent strains, lessening labor and yielding similarly too.

Harvest approx. 1/2 -1 pound per plant, in less time than photoperiod dependent strains, while maintaining the same labor involved is the main advantage to "super auto" hemp strains.

This shortened seed to harvest time allows for two greatly beneficial options to the farmer: 1. Pulling a harvest of seed-free CBD flower off before the industrial hemp has the ability to contaminate it with cross-pollination; 2. Increased production over photoperiod dependent varieties through the ability to have two harvests off of the same plot per season. The later option, if there is no threat of near-by industrial hemp farms, gives the farmer the ability to sell his first harvest at an earlier date than the typical seasonal harvest and receive a higher pre-season price for their product before the market is flooded in October.



We are looking for passionate farmers to join this project with us to test the hidden potentials of a "Super-Auto" strain of hemp and preserve the craft hemp industry. To join is simple, contact us via the information provided on the last page of this document, we will send pricing for seed based on your quantity needed for the size of your operation (minimum order

of 5,000 seeds) and once you place an order your seed will be shipped to you direct. Once you have the seed you can plant as you please, if assistance is needed along the way we do consulting as well, the product harvested from the seeds you plant is yours to sell through your established markets, the only thing we ask is that you share with us your experience with cultivating this variety...



MK AUTO (MASTER KUSH HEMP)

*Super Auto-Flower CBD Hemp Variety
Season 2020*

QUALITIES

SEEDS: Feminized

TYPE: Indica/Sativa Hybrid

HARVEST: 75-80 days from sprout

POTENCY: 8-13% CBD- < 0.3% THC

YIELD: 1/2 - 1 lb.

SIZE: 4-8 feet

AROMA: Fruity earthy-sweet essence

FLAVOR: Earthy citrus with a floral finish

Its lineage is long and its pairing with a (Southern) Argentina Auto-flower (Cannabis Ruderalis) crossed with Master Kush from the Hindu Kush Landrace.

The Master Kush has an exceptionally high terpene profile yielding a content of 2 -6% of terpenes throughout the flowers. This cultivar is a versatile that can be grown in varying temperatures and climates. Crops can be harvested multiple times in a season allowing for several crop rotations in proper conditions or for one early harvest before industrial hemp has a chance to cross-pollinate. When grown in a controlled environmental greenhouse year-round you can easily plan crop rotations with a consistent seed to harvest period of 75-80 days, increasing yield potentials.





CERTIFICATE OF ANALYSIS

Super Auto-Flower CBD Hemp Variety
Season 2020

Report: Evaluation Summary

PREE
LABORATORIES

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Product Description

Product Name: **MK Auto Flower**

Matrix: Post-Harvest Hemp
Metric ID: n/a
Lot Number: n/a
License Number: 0
Report ID: A0378-09
Date Collected: 2019-08-26
Date Received: 2019-08-26
Report Date: 2019-08-28

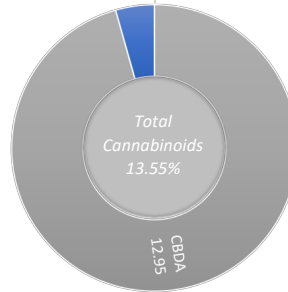
Tests Requested: Moisture Analysis
Cannabinoid Potency Analysis

Notes: R&D sample results may not be used for compliance purposes.

Evaluation Summary

Moisture Analysis	Tested Value (%)
	18.39 %

Cannabinoid Potency Analysis		Abbr.	Dry Wt. %	Dry Wt. mg/g
Total THC *	Total CBD *	THCA	0.60	6.0
0.52 %	11.44 %	Δ-9-THC	< LOQ	< LOQ
5.2 mg/g	114.4 mg/g	CBDA	12.95	129.5
		CBD	< LOQ	< LOQ
		CBN	< LOQ	< LOQ
		CBDV	< LOQ	< LOQ



* moisture compensated & adjusted for the loss of carboxylic acid group - OAR 333-064-0100

CONTACT INFORMATION



FOR MORE INFORMATION...

Feel free to contact us via the email provided below and provide an estimate of how many seeds you would be interested in. We will respond in a timely manner to help you get started for the 2020 Season. Other options of seed are available upon request.

www.southmtnmicrofarm.com



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SEASON 2020