A. Know your hemp plot. Chemical residues from past crops can affect your hemp.

B. Soil Test. Soil test must include heavy metal analysis. Hemp is a soil remediator, it will draw contaminates out of the soil if they are present. Contaminates make a crop unsellable. Contact your Monty's representative about the tools necessary for soil (and tissue) testing with AgXact.

C. Adjust/amend your soil (pre-plant)

1. Add MagmaHume at a rate of 30# per acre.
2. Apply 2 qts/acre of Monty's Liquid Carbon.
3. When adding natural amendments such as poultry litter, apply at least 2 weeks prior to planting and incorporate into the soil to avoid burning new plants.
4. Add other amendments and adjustments (see soil target chart) to bring soil to the ideal hemp soil targets. Improve the performance of your granular fertility by adding Humihance to your dry fertilizer at 1/2 gallon per ton.

HEMP SOIL TARGETS			
Nitrogen	100#	Boron	1.2 PPM
Phosphorus	110#	Zinc	4 PPM
Potassium	215#	Manganese	35 PPM
Sulfur	10#	Iron	40 PPM
Magnesium	12 PPM	Copper	1.5 PPM

D. Know your processor. They will be able to assist you in producing a crop that is marketable. This is a very important relationship for a successful crop.

E. Tissue sampling. Tissue sampling is critical to address nutrient deficiencies and crop issues throughout the growing season. It is also necessary toward the end of the growing season to maximize CBD production and to stay within legal THC limits. During flower stage, test only bud/floral material.

Note: You can substitute Calcium Plus for MLC

MONTY'S PRODUCTS IDEAL FOR HEMP APPLICATION

HEMP PRO™ STARTER is ideal for quick emergence and early season vigor. It is a versatile liquid plant food that can be used at planting and as a foliar on hemp, enhancing plant development from germination to early vegetative.

HEMP PRO™ EARLY VEGETATIVE is a foliar applied liquid fertilizer containing N, P, K with Sulfur, Iron, and Zinc. It is specifically formulated to deliver readily available nutrients during the vegetative growth stages to enhance growth and root development.

HEMP PRO™ LATE VEGETATIVE increases plant growth with our unique blend of NPK and micronutrients. Its balanced blend helps boost the hemp plant's ability to maximize nutrient uptake and plant development.

HEMP PRO™ BLOOM & FLOWER is for application during reproductive/ bloom stages. It is specifically designed to maximize hemp plant performance during bloom stage.

MONTY'S® LIQUID CARBON™ is an OMRI listed soil conditioner which reduces compaction and improves overall soil health. The proprietary activated humic technology enhances micronutrient uptake and enhances moisture retention. Helps address low organic matter and low CEC. Also available in dry format!

AGRI-N™ is a 14% Nitrogen and 26% sugar source. It is a natural product that provides nitrogen for green-up… and energy. It can reduce plant stress and help enhance growth.

AGRI-SWEET™ is refined sugar. It is an excellent food source for soil microbes and helps enhance the release of soil nutrients through microbial activity.

CALCIUM PLUS™ provides chelated calcium directly to the plant. Calcium has been shown to aid in developing improved cell function and strength which may improve standability and nitrogen utilization.

CoMoB is a unique blend of micronutrients geared for maximizing plant growth. Cobalt is important for growth and metabolism. Molybdenum supports Nitrogen fixation in legumes. Boron supports plant structure.

HUMIHANCE® is a humic-based fertilizer coating that will quickly and efficiently provide the benefits of Monty's Liquid Carbon to the plant and soil. It is ideal for use when blending granular fertilizer, and is compatible with micronutrients and pre-treated fertilizers.

K28™ LIQUID POTASH is a 28% potassium supplement for hemp plants. It is nearly pH balanced and can be safely added to nitrogen solutions, and most herbicides and fungicides, for foliar application.

MagmaHume® is a unique combination of Monty's proprietary activated humics and basalt minerals – a source of secondary and micro nutrients – designed to improve soil fertility and health. Apply with pre-plant fertility and mix with soil in the greenhouse.

MICROHANCE® contains six important nutrients including Nitrogen. It offers a unique blend of Monty's technology designed to provide nutrients to the plant at any stage of growth, helping maximize the plant's yield potential.

MONTY'S HEMP PRO™

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MONTY'S® HEMP PRO™

CBD Hemp Production Protocols

Recommended application procedure to maximize hemp yield

A. Planting Methods. Monty's prefers for you to stick with what you know. Utilize growing methods you are familiar with: Tobacco, vegetable, plastic and drip irrigation, 5x5, and other field methods will work as well. Depending on the method, expect to plant between 1,200 to 2,500 plants per acre.

B. Choosing your seed and plant stock.

It helps to plant varieties with maturity from 90 to 135 days to stagger harvest and drying space

1. Clones = all female plants, rooted and ready to grow.
2. Seedlings = male and female plants, rooted and ready to grow
3. Seed = *Feminized* (higher % female possible male and hermaphrodite). *Non-feminized* seed is roughly 50/50 male to female.

C. Planting time. Depending on variety, planting should be between May 1 and July 15.

For detailed application information, see Monty's Greenhouse and Field Application Bulletin.

A. Greenhouse seed production. 1:100 commercial injector dilution rates.

PPM	Hemp Pro Starter	Water Volume
800	8 ounces	100 Gallons
1600	16 ounces	100 Gallons

B. Transplanting. Use Hemp Pro Starter at 1 quart per 1,000 plants, and Monty's Liquid Carbon at 1/2 quart per 1,000 plants, in the transplant water.

Note: To avoid disease problems, foliar feed early in the day, before heating by the sun. Late day feeding is possible, but plant must be dry before dark.

You can apply feedings every week if desired or to address deficiencies.

Week 1-2: (1) Foliar or drip apply Hemp Pro Early Vegetative at 1 quart per 1,000 plants. May be applied with other nutrient products. (2) Apply Microhance, CoMoB, and MLC at 1/2 quart per 1,000 plants. (3) Tissue test to determine nutrient deficiencies. Contact your Monty's or dealer representative to assist you with the AgXact tissue sampling process.

Field topping may be advisable about the 5th week/late July when plants are about 28-36" tall. Consult your processor to determine if this is necessary.

Week 3-4: (1) Foliar or drip apply Hemp Pro Early Vegetative at 1 quart per 1,000 plants. (2) Apply Monty's Liquid Carbon and Nauxin at 1/2 quart per 1,000 plants. May be applied with other nutrient products.

Note: For longer maturity varieties (example: 110+ day), this growth stage will exceed 5 weeks.

(ABOUT WEEK 5)

Apply as needed before bloom stage (allow 7 days between applications). (1) Apply Hemp Pro Late Vegetative at 1 quart per 1,000 plants. (2) Apply Monty's Liquid Carbon at 1/2 quart per 1,000 plants. Do not apply Hemp Pro Late Vegetative with any other nutrient products. (4) At least one week after final late vegetative application, apply CoMoB, Nauxin, and Agri-N each at 1/2 quart per 1,000 plants.

A tissue test should be performed to determine if there are nutrient deficiencies. Contact your Monty's or dealer representative to assist you with the AgXact tissue sampling process.

(ABOUT WEEK 8)

Do not make any foliar applications after the second week of bloom stage. Drip or side-dress is preferred.

Apply as needed after week 8. Apply Hemp Pro Bloom & Flower, Agri-Sweet, and K28 Liquid Potash each at 1/2 quart per 1,000 plants. Apply MLC at 8 ounces per 1,000 plants.

Note: Varieties of concern should be tested earlier than other varieties. During this stage, the pistle goes from clear to cloudy to amber. When it changes to mostly cloudy, a tissue test should be performed. A magnifying glass such as a jeweler's loop is very important to observe and indicate the best time to harvest. Be aware of your state testing protocols to schedule their test to fit into your harvest schedule.

A. Consider drying space. Hemp takes about the same to double the space tobacco does in the barn. It only dries for about two weeks, so variation in maturity days will allow you to dry multiple crops in the same barn.

B. Handling. Minimize handling and transportation of dried hemp to maximize the quality of the finished product. The money is on the plant, not in the plant. After initial processing, safe guard quality by storing in a clean, dry environment.

This guide is Monty's general application information for a successful hemp yield. Talk to your Monty's representative for more specific information.

Note: You can substitute Calcium Plus for MLC