Drip Cultivation Case Study

Artificial intelligence yields major dividends for growers

ABOUT DRIP CULTIVATION

Drip Cultivation is an Oklahoma based, family-owned craft cannabis company which features both a 10,560 ft^2 cultivation area, and a retail dispensary. Concentrating on the production of award winning flower, as well as extracts, pre-rolls, and edibles within their indoor farm, Drip Cultivation is an OMMA licensed facility producing medical grade cannabis. Originally conceived from on a desire to help alleviate the pain of a close family member who had negative side effects from other medications, the company commenced operations in 2020.

In an effort to maintain the highest quality standards, Drip has implemented rigorous bioprotection measures to ensure their product meets the strict requirements of their medical clientele, and are always on the lookout for new ways to help them in this endeavour.

As company Agronomist, Jon Soper notes, "Positive changes in the quality of crop are only realized when everything is optimal: pest control is effective, plant health is positively maintained, and the grow environment is clean and consistent. All of these factors contribute to the consistent quality crop we produce. If any of those factors become imbalanced, that's when we see drops in yield, quality — even smell and taste."

ENTER FERMATA

Having met with Fermata at the MJBizCon cannabis trade show in Las Vegas, Sarah and Mikel Scott immediately saw an opportunity to take their grow to the next level: implementing the AI-powered Croptimus™ IPM platform at their facilities in Woodward, OK.
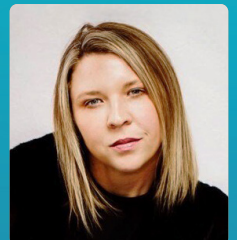
As even the cleanest grows occasionally experience outbreaks of pests and disease, Drip was primarily concerned with discovering spider mites, powdery mildew, and botrytis at their earliest stages — as well as more common issues such as nutrient deficiencies and mechanical damage that Fermata's platform additionally detects. Within a short period of time, the company began to experience significant improvements in both yield and reductions in losses.

"Croptimus™ is a game changer. Our saleable buds went from 35 lbs per room to 42 lbs per room from the first harvest and it just keeps improving. From moisture problems, lighting issues, pest issues and time management, Fermata has you covered."

— Sarah Scott
Owner Drip Cultivation

Owner, Mikel Scott observed, "Within the first 6 months of utilizing Croptimus™ in our facility, we have seen an average of 10% increase in yields, and a 14% decrease in plant loss per harvest."

Further, the adoption of the Croptimus™ platform has generated additional positive effects on the working environment at Drip Cultivation. "There has been an improvement in morale at the shop; countless hours are not spent on scouting and pest management.", Jon Soper explained. "They have more time to complete other tasks such as maintaining a sterile environment which we believe has made all the difference."

As the benefits of the platform increased over several iterations of Femata's rapidly evolving product, Drip Cultivation Owner, Sarah Scott, summed up her experience as follows:

"Croptimus™ is a game changer. The software has completely changed our facility and boosted the morale in our shop. Our saleable buds went from 35 lbs per room to 42 lbs per room from the first harvest and it just keeps improving. From moisture problems, lighting issues, pest issues and time management, Fermata has you covered. Their customer service is top notch, they are always available for any questions and always trying to improve their tech for the consumer. We are so grateful for this program and we can't wait to see the continued transformation of our facility. We would recommend this program to anyone in the industry — the benefits are life changing."

ABOUT FERMATA

Fermata is focused on the application of data science and computer vision solutions to challenges faced by commercial agriculture. Engaged in extensive research since the company's inception in 2020, Fermata has now developed an adaptive computer vision platform designed to automatically detect pests and diseases at their earliest stages, saving growers up to 50% on scouting time, 30% on lost harvest, and 25% on crop inputs.

For more information visit **www.fermata.tech**