

# ARVUM PLANT LABS

## RAPID LEAF TISSUE NUTRIENT ANALYSIS

### **CASE STUDY:**

### **Maximizing Efficiency - Reducing Fertilization Costs in a High-Tech Supplemental Light Greenhouse**

**TLDR:** A cannabis cultivator growing in a high-tech greenhouse wanted to save money on their nutrients. Arvum came on-site to learn more about the fertilization program and to collect samples for plant nutrient tests. The results of the tests showed that the cultivator was overfeeding the plants and they were able to reduce the quantity of nutrients in their fertilization program and save money without reducing yield or quality.

#### **The Situation:**

A high-tech supplemental light greenhouse in California was looking for a way to maximize the efficiency of their fertilization program to reduce costs. They thought that they could uncover potential improvements and cost savings by leveraging Arvum Plant Labs' rapid test results and data analytics. The Arvum team were happy to assist and so they stopped by for a visit.

#### **Identifying the Opportunity:**

During the initial onsite visit and sampling, the Arvum team discovered a notable opportunity for improvement. While reviewing the fertilization schedule with the cultivation team Arvum learned that there was a good chance that the plants were being overfed. The results of the plant nutrient tests confirmed this theory and created an opportunity to reduce the quantity of nutrients the cultivator was feeding the plants in order to reduce costs while maintaining yield and quality.

#### **Developing a Monitoring Program:**

To further validate the theory and to ensure the client would maintain their yield and product quality moving forward, Arvum designed a nutrient monitoring program that consisted of bi-weekly plant nutrient testing. Frequent testing allowed the cultivator and Arvum to make sure that the nutrient levels of the plants remained in the optimal zone throughout their growth cycle.

#### **Proven Success:**

Within a harvest, the theory was confirmed, and the results were remarkable. The client successfully reduced the amount of nutrients added to plant feedings, which resulted in substantial cost savings without affecting yield and product quality.

The success story of this greenhouse cultivator is a great example of the importance of using advanced testing and monitoring techniques to optimize operations and reduce costs.

If you're seeking ways to enhance efficiency and reduce costs in your greenhouse or cultivation facility, consider the power of data-driven insights and expert guidance. With the right strategies in place, you can unlock substantial savings and maximize the profitability of your operations.

Arvum Plant Labs' comprehensive plant nutrient monitoring programs offer a pathway to success, enabling you to make informed decisions and achieve tangible results. Get in touch with us today and embark on a journey towards cost reduction and operational excellence.

**Empowering Growers | Transforming Cultivation**

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