



# The Seed

A MONTHLY  
NEWSLETTER  
FROM CEDAR VALLEY



## A "Sense" for Something New

### Crop Content at High Speed:

Efficiency is something that gets fed and watered daily here at Cedar Valley Farms. As part of our ongoing research with The Ohio State University, our chairman, Shawn Cutter and COO, Josh Cutter recently revisited the OSU main campus to meet specifically with the Electroscience Lab crew.

Their discussions and developments with sensor technology are quite interesting and will ultimately grow improved efficiency and clearer transparency when testing content levels within the plants here at Cedar Valley Farms.



Left: COO, Josh Cutter  
Right: Chairman, Shawn Cutter

Technology in Training: To explain further, with the help of CVF, OSU is developing technology that will be used to test the content levels of hemp.

This technology was originally designed to test the protein content of soybeans. Interestingly, it can actually be trained to test various content levels within *any* given crop, which is where Cedar Valley comes in.

The college has used our hemp plants as samples in an effort to train the technology to measure the levels of THC, CBD, and CBG, which are required to be regularly tested for state compliance and product development.



OSU Main Campus - Parker  
Food Science & Tech Bldg

# Diminishing Delays, Pursuing Possibilities

-Seeing Value in University Research-

## How it Works:

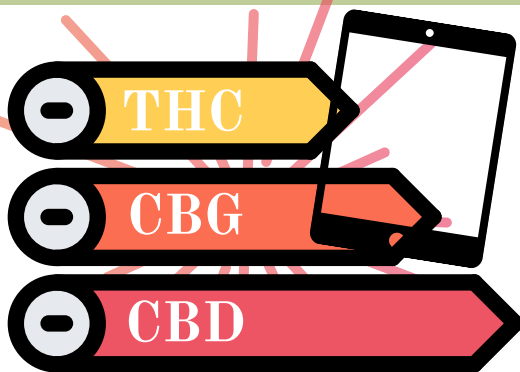
- The base of the device is approximately a 1-foot square box, black in color, with a small, clear, saucer-like cup that sits on top.
- It is battery operated, allowing it to be conveniently mobile.
- The saucer is filled with remnants of the desired crop (in this case hemp flower clippings), and the device begins to spin the cup in circles.
- During this mere 15 second cycle, Infrared laser beams shoot up through the bottom of the base as it captures the content levels chosen by its user.
- A wireless connection (via Bluetooth) connects a tablet to the device, which immediately displays the captured data on its screen. Components that are tested in CV's plants are levels of THC, CBD, and CBG.

Small saucer holds flower



Results are captured  
& sent to tablet!

Why it is Useful: Normally, Cedar Valley would send samples of our hemp plants out externally to be tested by another party only to receive the results back a week or more later. Having to wait an entire week puts limits on the grower with any changes that may need to be made immediately.



For example, if the THC levels are high, there are adjustments that can be made to maintain this. However, waiting an entire week or more could cause time to run out leading to the complete destruction of a large portion, or possibly the entire collection, of plants. Having this technology on site, relaying data within several hours would make things much more efficient in moving forward with the next steps in the process.

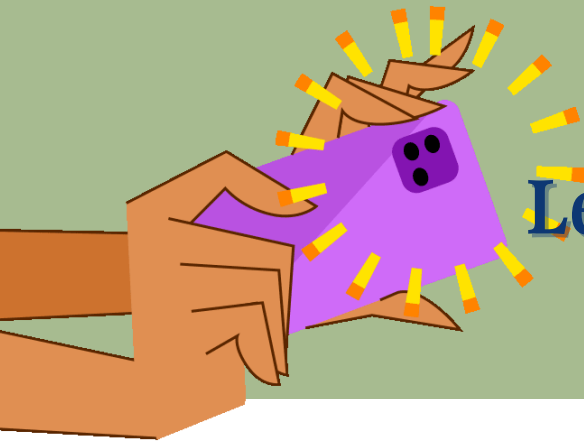
Additionally, eliminating another party and having on-site testing with immediate results improves assurance of accuracy and transparency within the business, enhancing our motto, "From our hands to yours."





# Violet Views Lead to Amber Hues

-Our Violet Gro Partners Return-



**Pictured Below:**  
Violet Gro Team analyzing CVF plants



CVF has not only continued our collaboration with OSU, but also with our Violet Gro partners! Recent findings resulted in us delaying our harvest date to allow for our plants' trichomes to further develop so they could reach their peak performance.

Trichomes are tiny hairlike features that hold resin. Within the resin is CBD, CBG, and THC content - the most valuable part of the plant when its usage is primarily for CBD products.

Recently, Violet Gro re-visited our farm to take measurements of the plants since the February installation of their improved lighting in our greenhouse.

Their team concluded that it would be beneficial to push back our harvest a few days due to the appearance of our plants' trichomes having a "milky" tone to them. This color signifies that their content hasn't quite reached peak levels. Amber-toned trichomes signal that the content therein is ideal!

CVF finds much value in collaboration, especially with our Violet Gro partners!

*Check This!*

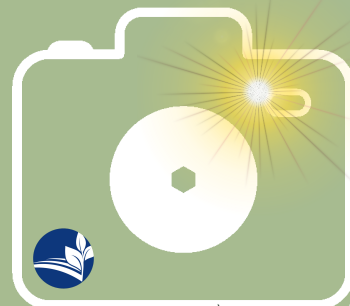
Can you see  
the  
amber-toned  
trichomes?!



*Perfectly  
Peaked!*

# Looks of Limonene!

-A Glance at Our Greens from Harvest-



Check out our gorgeous greens from our recent harvest! Each time the greenhouse doors opened during this past growth cycle, greetings of a citrus breeze wisped back your hair as freshly squeezed lemons spritzed your senses. This is because this time around each of the 1,500 pots held the same strain - Limonene.

In addition to having the refreshing scents and flavors of citrus, Limonene might be the perfect component to start your day off right as it is known to elevate your mood, enhance energy, and help you find focus. To add to its loveliness, Limonene is a CBG strain, meaning it contains the countless benefits of CBD along with a lengthy list of additional remedies! Keep your eyes "peeled" for when this lemon lady hits our shelves!



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