

SUPERIOR
HEMP
GENETICS



2024 Catalog



About the Hemp Mine

Welcome to The Hemp Mine. We are a vertically integrated, family owned and operated, hemp company headquartered in South Carolina. The Hemp Mine manages 30 acres of field production and a 10,000 ft² manufacturing facility. We manufacture consumer good products under The Hemp Mine brand as well as for white label companies. With our business model being vertically integrated, we understand the bottlenecks from start to finish throughout the whole supply chain. Our goal is to offer a validated genetic portfolio, selected specifically for your region and growing conditions.

The Hemp Mine breeds and regionally trials indoor and outdoor at scale to offer trusted genetics to the hemp market. The genetics offered are clones in the form of stage III tissue culture, unrooted cuttings, rooted cuttings (liners), and seeds. The Hemp Mine comes with decades of commercial horticultural expertise and prides themselves on delivering a science based and data driven perspective to the hemp industry. We are constantly challenging the industry status quo from a breeder, farmer, and consumer perspective.

The Hemp Mine Owners



Deborah I. Justice



Dr. Allison Justice



Amanda Justice Schell



Matthew Justice

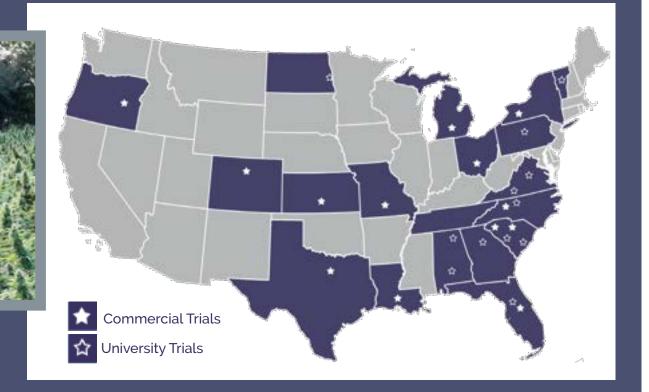
Breeder Goals Research & Development

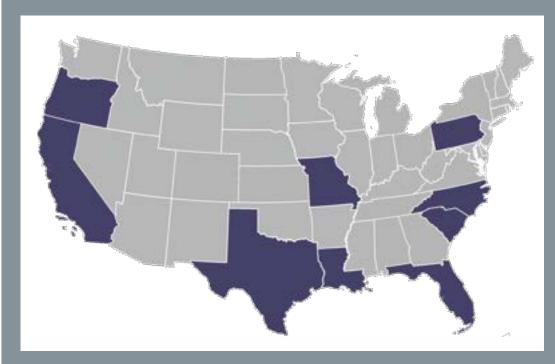
The Hemp Mine values honesty, transparency and science. Our breeding goals are no different. We are only successful if our customer is successful. Our genetics go through rigorous trials in vastly different regions of the US to properly select cultivars per region. This data-backed approach gives confidence and tools to our sales team and customers to ensure success. Breeding is based off photoperiod, legality, pest and disease resistance, market demand, and regional need. From there, selections are made from indoor and outdoor testing.

Why are Field Trials Important?

Trials are used to measure how well a particular variety will perform in different parts of the country. It also allows us to evaluate new varieties. There are two kinds of trials: university field trials and industry / commercial field trials.

Trials allow us to collect regional data to provide confident recommendations on cultivars to farmers. As noted in the previous pages, The Hemp Mine holds Field Days where growers can see these varieties in person.





The Hemp Mine Production & Distribution Partners

The Hemp Mine has well established production partners all over the United States ready to supply your needs in the volume and time frame required. Every state in purple is home to one of The Hemp Mine production partners. For states that are not highlighted, it is no problem for our partners to ship to those locations. You can rely on the years of horticultural growing expertise, trucking fleets, controlled environments, and even outdoor propagation acclimation zones to ensure our product quality.

Cuttings carefully packaged for shipping.

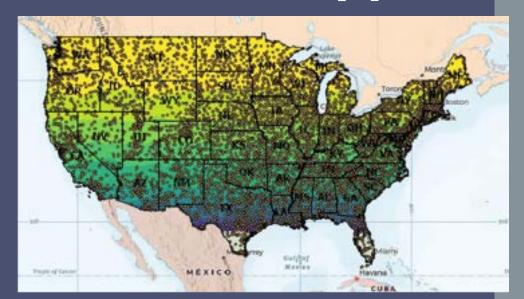
Healthy arrival of cuttings ready to root.

Successfully rooted liners ready for transplant.





Technical Support



www.thehempmine.com/pages/hemp-planting-map

Interactive HPM: Hemp Planting Map

The Hemp Mine Hemp Planting Map (HPM) was created in collaboration with the University of TN to help hemp greenhouse growers and field farmers properly schedule/forecast their production. The Hemp Mine understands the value of data driven technical support, thus we have created an interactive tool, the HPM, that can be found on our website at the link above. This equips growers with regional environmental information that enables them to make proper planting, testing and harvesting decisions for their crop.

The Hemp Mine YouTube Channel

The Hemp Mine YouTube Channel provides superior technical resources for customers that can easily be accessed at their convenience. During our commercial trials, we created videos to share on site performance of each cultivar. We will continually add pre-recorded webinars on cultivation and post harvest related topics with our vendor partners.



The HPM allows a grower to understand the day lengths on certain dates for their location, answering the question "How early can I plant?"

Also, the map shares the frost potentials at different day lengths. This is important so that the risk of frost at the earliest day length for a grower's location can be determined. This way, plants won't go in the ground too early even if the day length is long enough.





MEMBER-DRIVEN CANNABIS HORTICULTURAL RESEARCH

The Cannabis Research Coalition is a professional group dedicated to cannabis research. Dr. Allison Justice & The Hemp Mine LLC, an industry leader in cannabis genetics and production, have partnered with Dr. Jim Faust's Flowering Physiology Laboratory at Clemson University to address the cultivation and postharvest issues that challenge today's cannabis industry.

Our approach is to combine the resources of stakeholders—individuals and businesses—to fund research that provides practical answers to the questions that limit our success as an industry. The cooperative research model, whereby members benefit from the pooled resources of an entire group, has driven horticulture and greenhouse research for decades. Cooperative research allows you to be at the cutting edge of science-based research for a fraction of the actual cost. By partnering with colleagues, collaborators, and sometimes competitors, you can stay at the forefront of production know-how.

Members not only have access to exclusive research, techniques, and discoveries; but they participate in choosing research topics and projects. Please visit www.cannabisrc.org to learn more about member benefits and how to join!



Dr. Allison Justice

The Hemp Mine Genetics

The Hemp Mine GENETICS

The Hemp Mine offers a proven, full portfolio to the hemp market. Each cultivar we offer fits a specific final product objective. As you can see in the categories to the left, some of our genetics are more specialized, while others fit more general objectives. Please consider the category each cultivar falls into as this should dictate **Our**diverse selection based on your production goals

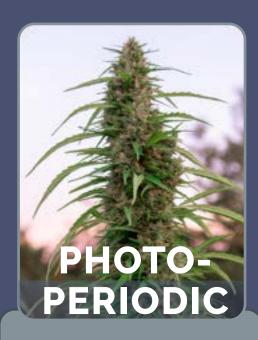
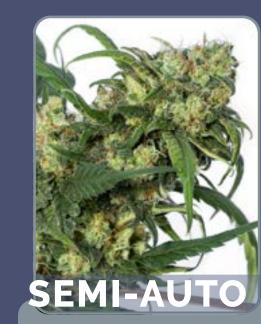


Photo-periodic includes varieties which will flower outdoors under natural light. Our flower initiation times range from early season flowering (14:00 h:m) to late season flowering (13:18 h:m).

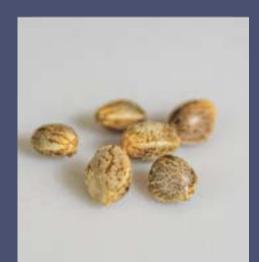
BELLE SUNSET FUNDIP HEMPMINER

MINOR CANNABINOID: JANET'S G HEIDI



Semi-autos will remain
vegetative if given more than 18
hours of light per day. Outdoors
in the US, without photoperiodic
lighting, they will initiate
immediately yet can be kept
vegetative with only 1 µmol m-²
s-¹ of light. This gives the grower
the ability to flower outdoors
year round or in a greenhouse
without blackout cloth.

PEACH HAZE
THM JACK



FEM SEED

Seed is great low cost option if minor variance is acceptable in your operation. Both seed varieties available this year are photoperiodic.

SUNSET BELLE





PHOTOPERIODIC

BELLE

The Hemp Mine Showstopper! Pink pistils, high yields & disease resistance.



TERPENES

ß-Myrcene
 Trans-Nerolidol 2
 ß-Caryophyllene
 Unique juicy fruit profile

Belle is our SHOWSTOPPER! This variety has extremely high yields and disease resistance. The flower has bright pink pistils and terpene content over 2%.

Many choose this variety due to its unique terpene profile of juicy fruit that lingers even when not dried or cured properly.

This variety stacks early and total THC spikes late, making it a safer variety to grow.



HIGHLIGHTS

- High disease resistance
- High yields
- Unique terpenes > 2%
- Total THC spikes late
- Beautiful pink pistils

VARIETY	TERPENES	FLOWER INITIATION (H:M)	CBD AT 0.3 % TOTAL THC COMPLIANCE	CBD AT HARVEST (30 DAYS AFTER STATE TEST; FEDERAL REGS)
Belle	2.4 %	13:55	9 %	12 %

Note: Graphs and COAs are available upon request



PHOTOPERIODIC

SUNSET IMPROVED

A later finishing variety with dense, musky lemon smokable quality flower.



Our Sunset variety is named after its photoperiodic response: she is a late bloomer. Whereas most of our varieties set flower around 14 hours of light, Southern Sunset doesn't initiate until under 13.5 hours of light. What this means for the farmer is that Sunset can be planted the same time as other varieties, yet it will finish approximately 3-4 weeks later. This is a great option for staggering harvest and reusing drying space.

This is hugely beneficial for regions under the 45th parallel as it will grow vegetatively longer, producing a bigger plant.

Above this parallel it can be a risky choice. A later flower initiation time coincides with a later finish time creating the risk of not finishing prior to frost.

Sunset yields beautifully dense, smokable quality flower with a unique aroma of musky lemon. Sunset tests over 2% total terpenes.

- Musky lemon terpene profile
- Enables staggered harvest
- Over 2% total terpenes

VARIETY

TERPENES

FLOWER INITIATION (H:M)

CBD AT 0.3 % TOTAL THC COMPLIANCE

CBD AT HARVEST (30 DAYS AFTER STATE TEST; FEDERAL REGS)

Sunset Imp.

2.3 %

13:18

8 %

17 %

Note: Graphs and COAs are available upon request.

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PHOTOPERIODIC

HEMPMINER

Dense, perfect shape for smokable flower; high in minor cannabinoids



TERPENES

- ß-Myrcene
- a-Pinene
- ß-Caryophyllene



VARIETY	flower initiation (H:M)	TERPENES	total Cannabinoids
Hempminer	13:55	3.6 %	15 %

Note: Graphs and COAs are available upon request

HempMiner is one of two new introductions. This new variety has excellent yields while having the perfec shape and density for smokable flower.

HempMiner has the densest buds of any flower we've ever bred while also having excellent botrytis resistance.

High minor cannabinoids add to the uniqueness of this plant lending to its name, HempMiner.

HIGHLIGHTS

- High terpene content
- Excellent CBD:THC ratio
- Extremely dense smokable flower quality buds
- High minor cannabinoids



PHOTOPERIODIC: MINOR CANNABINOIDS

JANET'S G

High CBG, frosty & dense flower with extremely low risk of THC non-compliance



TERPENES

- ß-Myrcene
- a-Pinene
- ß-Pinene

Janet's G is The Hemp Mine's first high CBG offering and has won many hearts in past growing seasons. This genetic boasts high disease resistance and medium-high yields.

Unlike other CBG varieties, this one does not require an early harvest nor does it split easily. Once dried, Janet's G is extremely frosty and dense making an excellent smokable flower.

In addition to the higher margin on CBG, this variety brings value by eliminating the risk of ever "going hot". At full maturity, Total THC only ever reaches 0.15%.

Janet's G is the perfect variety for dry sifting as the trichomes are larger than other CBG varieties on the market and stay snow white.

VARIETY	flower initiation (H:m)	CBG AT 0.3 % TOTAL THC COMPLIANCE	CBG AT HARVEST (30 DAYS AFTER STATE TEST; FEDERAL REGS)
Janet's G	13:55	13 %	13 %

Note: Graphs and COAs are available upon request

HIGHLIGHTS

- High CBG
- Dense, frosty flower
- Great for smokable flower
- Extremely low THC risk
- Excellent for dry sifting with large, snow

white trichomes

Structure does not split easily

The Hemp Mine Genetics



PHOTOPERIODIC: MINOR CANNABINOIDS

HEIDI

High yielding and high minor cannabinoids



TERPENES

- ß-Myrcene
- a-Pinene
- ß-Caryophyllene



Two years of field trials have proven Heidi's position as a commercial variety. Heidi has high yields of dense snow white flowers Selected for the SE, Heidi can withstand the heat and humidity leading to other variety failures due to disease. Due to the higher minor cannabinoids, Heidi stays compliant until the last two weeks of flower. Once the flower is dried, it stays green with trichomes similar to a CBG variety.

HIGHLIGHTS

- High minor cannabinoids
- Dense, frosty flower
- Great for smokeable flower
- THC progresses slowly
- High disease resistance
- Unique vanilla aroma

VARIETY	flower initiation (H:M)	TERPENES	total Cannabinoids
Heidi	13:55	1.552 %	18 %

Note: Graphs and COAs are available upon request.



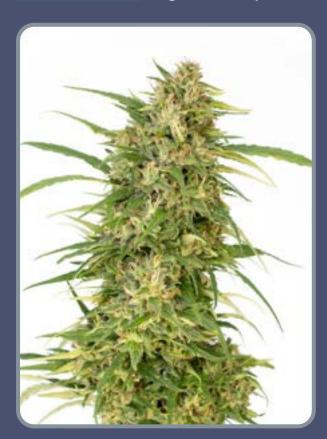
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PHOTOPERIODIC

FUNDIP

Highest terpene content with a sweet, dank profile.



TERPENES

- Myrcene
- a-Pinene
- ß-Caryophyllene Sweet dank profile

FunDip is named after the sweet candy we used to enjoy as kids.

The sweet, dank smell will fill up a room with the highest terpene concentration in our lineup

Flowering Response: Needs 18 hours of light or longer to stay vegetative..



HIGHLIGHTS

- Highest terpenes 4.13%Dense
- Extremely frosty

VARIETY	flower initiation (H:M)	TERPENES	CBD AT 0.3 % TOTAL THC COMPLIANCE	CBD AT HARVEST (30 DAYS AFTER STATE TEST; FEDERAL REGS)
Fundip	13:55	4.13 %	9 %	16.8 %

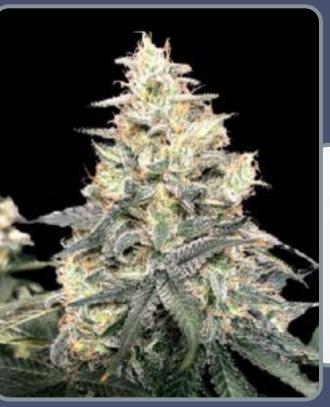
Note: Graphs and COAs are available upon request.



SEMI-AUTO

THM JACK

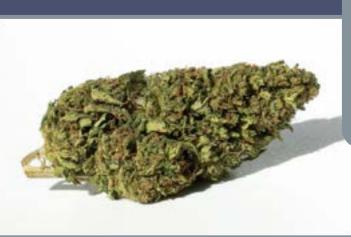
High yielding smokable flower with pine & turpentine terpene profile.



TERPENES

- Terpinolene
- ß-Caryophyllene
- Guaiol

Pine & turpentine profile



THM Jack is a high yielding sativa.
This variety has a distinctive
terpene profile that could be
compared to the legendary 'Jack
Herer' variety consisting of pine anc
turpentine. THM Jack is loaded with
trichomes making her sticky and
very frosty.

Flowering Response: Needs 18 hours of light or longer to stay vegetative.

HIGHLIGHTS · You won't find another hemp variety that has this aroma!

Extremely sticky and frosty

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VARIETY	TERPENES	CBD AT 0.3 % TOTAL THC COMPLIANCE	CBD AT HARVEST (30 DAYS AFTER STATE TEST; FEDERAL REGS)	CBG
THM Jack	1.158 %	7 %	15 %	1 %

Note: Graphs and COAs are available upon request.

The Hemp Mine Genetics

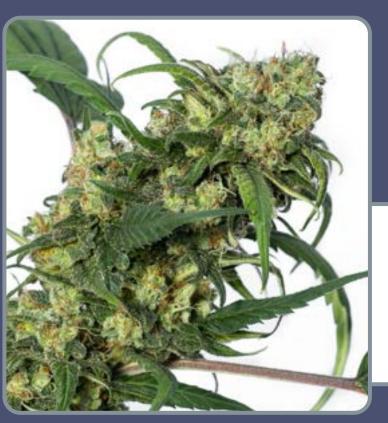




SEMI-AUTO

PEACH HAZE

A high resin producing, high yielding sativa with sweet peach & dank diesel aromas.



TERPENES

- Myrcene
- B-Caryophyllene
- Guaiol

Sweet peach and dank diesel aroma.

Peach Haze is a high yielding sativa hybrid which produces loads of resin. This variety has a distinctive terpene profile which dances between a very sweet peach aroma and dank

Flowering Response: Needs 18 hours of light or longer to stay vegetative.



- Dense
- Lingering aroma
- Extremely frosty

VARIETY	TERPENES	CBD AT 0.3 % TOTAL THC COMPLIANCE	CBD AT HARVEST (30 days after state test; federal regs)
Peach Haze	2.43 %	7.5 %	15 %

Note: Graphs and COAs are available upon request.





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