



HIGH GRADE
HEMP SEED
A SANTA FE FARMS COMPANY

UNMATCHED GENETICS.
UNRIVALED EXECUTION.

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2020

Hundreds of Millions of
Hemp Seeds Distributed to
Farmers Worldwide

WE ARE HIGH GRADE.

UNMATCHED GENETICS. UNRIVALED EXECUTION.



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At High Grade Hemp Seed we produce best-in-class hemp cultivars with proven compliance, feminization, and cannabinoid levels. And we back up our genetics with customer service you can count on.

Get to know us. Grow to love us. We are High Grade.



2016

A New Signature Strain,
Berry Blossom, is Released

2014

High Grade is Selected as
one of America's First
Certified Hemp Farms

2011

The First High Grade
Hemp Strain is Released

HOW PROFITABLE IS HEMP?

Hemp is the most genetically diverse plant in the world. Conservative figures say CBD and other cannabinoids sales will bring in more than 13.9 Billion by 2022.¹ In 2019, farmers will have devoted an estimated 265,764 acres to hemp, ten times more acres than in 2017.²

¹(Brightfield group, 2019)
²(WSJ, 2019)

THE POWER OF HEMP

Hemp is revitalizing agriculture, turbo-charging business, improving health and delivering life changing returns for farmers. At High Grade, we see our work in the hemp industry as an important opportunity to create change in the world.

WHY HIGH GRADE HEMP SEED?



Helping People Benefit from
the Highest Quality
CBD & CBG



Creating Feminized Hemp
Seed Movement



Distributing Hundreds of
Millions of Hemp Seeds
to Farmers



Helping Large Scale Ag
Farmers Transition from
Other Crops to Hemp



Establishing Relationships
with the Biggest Companies
in the Industry



To Date, **We've Grown in**
25+ States and are
Growing Our Footprint in
US and Beyond





HOW TO START GROWING HEMP

Growing hemp can be intimidating. The good news is that we have paved the way since 2011. Our unmatched genetics and track record in the field can drive your success. Nearly 500,000 acres of hemp will be grown across the US in the 2021 season, and farmers anticipate peak return. High Grade Hemp Seed projects sales of hundreds of millions of hemp seeds globally with production capacity for up to 300 million starts during the coming season. There is no better partner in your foray into hemp. And our unparalleled network of farmers, distributors and researchers reflects our worldwide commitment to powering our industry.

DEFINING A ROADMAP

Crop plan development is an important process. We recommend starting with what you want to get out of your crop and then working backwards.



BUSINESS PLAN



LAND



SEED



IRRIGATION



TESTING PLAN



END CUSTOMER



SEEDS VS. SEED STARTS

SEEDS: High Grade seeds have proven over time to be reliable, compliant and robust. With feminization rates of 99.98%* and germination rates over 95%*, our seeds represent the best hemp genetics in the market. If you're ready to turn hemp seeds into highly profitable crops, High Grade's consistent performance and wide variety will give you confidence to make the switch.

SEED STARTS: We offer all of our early and full term varieties as pre-order seed starts. The advantages of purchasing seed starts over traditional seed is that you often get better performance in the field and remove the demand of nursery infrastructure for starting plants. With starts you have 100% confirmation on germination rate and a strong tap root, ensuring plant vigor. We also find that starts are typically less susceptible to pathogens and mold.



CBD VS. CBG

CBD: CBD has long been known and respected for its properties. Our collection of varieties typically average 12-15% CBD homogenized. We recommend planting 2,000-3,000 plants per acre, depending on when you plant.

CBG: High Grade's Matterhorn CBG entered the market in 2020 and quickly proved itself as a 'crop of choice' for farmers. Our boutique CBG variety is recommended for smokable flower and compliance-wise, is a great choice for farmers. For Cannabigerol potency we see 12-14% homogenized.

We believe it's important to inform our process with both first and third party testing, and recommend our customers do the same.

Raising cannabinoid rich crops requires care to ensure you're getting the quality and results you're looking for. Final CBD and CBG percentages are due to many variables including: farming techniques, growing and climate conditions, harvest process, etc.

OUR COLLECTION

Our CBD and CBG cultivars have a five year track record of field performance. From improved auto flower lines to early finishers and CBG varieties, we are constantly developing and releasing innovative new strains. Choosing High Grade genetics is a wise investment. All of our varieties are proven performers, produced with your end-result in mind.

- **FULL TERM:** In Colorado, our growing season requires us to plant in the late Spring. We typically start our full term in greenhouses in flats in early May. This allows us to get full propagation veg time in before we transplant. We recommend starting seeds in flats if you have infrastructure to do so, if not, we recommend considering seed starts as they will take off quicker with an established root zone. For planting we recommend 3-5 ft centers with between 2,000-3,000 plants per acre depending on row spacing, with some farmers experimenting with up to 5,000 plants per acre.
- ◆ **AUTO:** Our auto flower strains are a great option for beginner growers or those who want their plants to flower and be ready to harvest as soon as possible. For auto flower, you often need a larger population vs. full term. For those in warmer climates, where multiple growing seasons are possible, or for those who have shorter photo periods, auto flower is a smart choice. Often, this line needs to be planted tighter due to the size of the plants and still trying to shade out weeds before canopy grows. We recommend 10,000-20,000 plants per acre. When planting the auto flower varieties we recommend coated seed into direct ground with plant tape application and/or using a precision planter to skip the step of going into flats.



OUR 2021 VARIETALS

ARKRYDER & ELIRAE

DESCRIPTION: EliRae™ and ArkRyder™ are the result of years of fine tuning and improving our foundational hybrids for the most field stable, heavy yielding and compliant CBD workhorse. Introducing our newly developed pollen to this line produced progeny with some of our biggest plant weights to date (600+ grams per plant), while still expressing boutique terps and consistent 20:1 CBD ratios. HG is excited to introduce this line to farmers in Colorado and other regions where untimely mid-September frosts/snowfall can present challenges and/or for staggered harvests with planting alongside day-neutral bumper crops and later full season varieties.

AUTO FLOWER

DESCRIPTION: For those in warmer climates, where multiple growing seasons are possible, or for those who have shorter photoperiods, auto flower is a smart choice. Designed to finish quickly. This varietal has an upright and uniform growth habit that makes it ideal for mechanized harvest. We recommend planting 10,000-20,000 plants per acre.

PALETTE: Sweet, spicy profile that's consistent batch to batch.

MATTERHORN™ CBG

DESCRIPTION: CBG is a hot topic in the marketplace, especially for farmers looking for compliance and smokable. This varietal is known for its uniform shape, plant vigor and yield. We suggest around 2,000 plants per acre for early June field plantings and 3,000 per acre for early July field plantings.

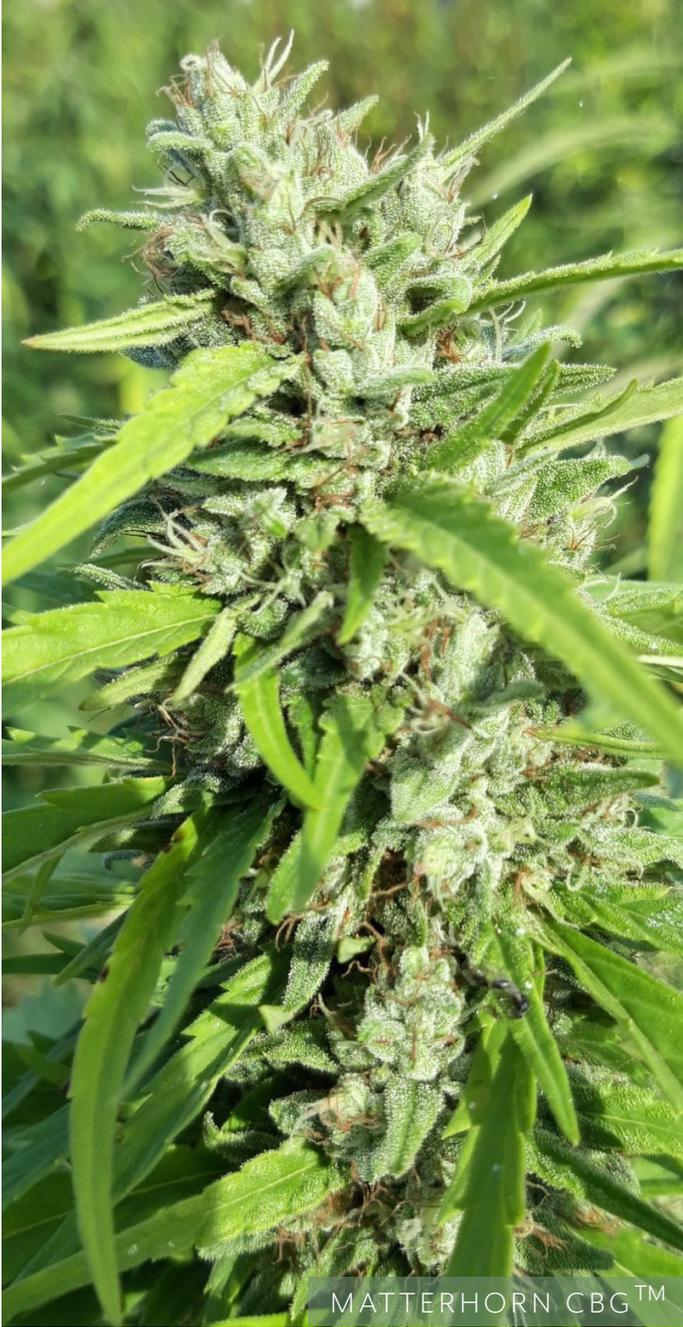
PALETTE: Effervescent notes of citrus, lemon and lime.

BUENO

LINEAGE: Cherry Uno x Berry Blossom

DESCRIPTION: This special variety was created with flowering time and cannabinoids of the Uno and the potential of higher yield of Berry Blossom. For full term, this is a homogenized testing performer.

PALETTE: For terp farmers, this is a choice varietal. Aromatic notes of strawberry.



MATTERHORN CBG™



BERRY BLOSSOM™



MERLOT



RED BORDEAUX

RED BORDEAUX

LINEAGE: Chardonnay x Berry Blossom

DESCRIPTION: With no compromise in vigor this varietal allows you to stagger your full-term harvest beginning with Red Bordeaux. This can be a huge logistical advantage when dealing with acres of biomass, giving you the ability to harvest your slightly later finishers in their ideal harvest window.

PALETTE: Red Bordeaux flowers emanate strong overtones of fresh cut strawberries and crushed lavender with hints of cherry and gasoline.

BERRY BLOSSOM™

LINEAGE: Cherry Kandahar S1 (In house selection) x Chardonnay

DESCRIPTION: One of our tried and true varietals. Nearly every state that grows hemp, grows Berry Blossom. This line has proven itself to handle the roughest conditions and longest flower cycles. With CBD farming scaling to big agricultural acreage, we felt it was priority to develop and stabilize a boutique quality CBD flower that can be farmed by beginners and experts alike.

PALETTE: Extremely floral smothered in exotic overtones of candied raspberries and acai berries.



ARKRYDER

MERLOT

LINEAGE: Cherry Wine x Berry Blossom

DESCRIPTION: Merlot is a cross between two of our time-tested, proven performers, and is one of our most robust strains. Merlot delivers the yields of Cherry Wine with a faster finishing time, exhibits the vigor of Berry Blossom, and has very reliable compliance when grown properly.

PALETTE: A sharp and robust frame of freshly opened tennis balls and orange peel underscored with rich tones of chocolate and cherries jubilee.



CHERRY WINE™

LINEAGE: The Wife x Charlotte's Cherries

DESCRIPTION: Cherry Wine was created and bred by Bodhi Urban in 2015. The phenotype of "The Wife" selected for this project practically drips resin and was the first phenotype we saw that was fully compliant while delivering consistently high levels of CBD. Paired with our 50:1 CBD rich Charlotte's Cherries male, this hybrid brings farmers and medical growers alike a true connoisseur CBD hemp cultivar.

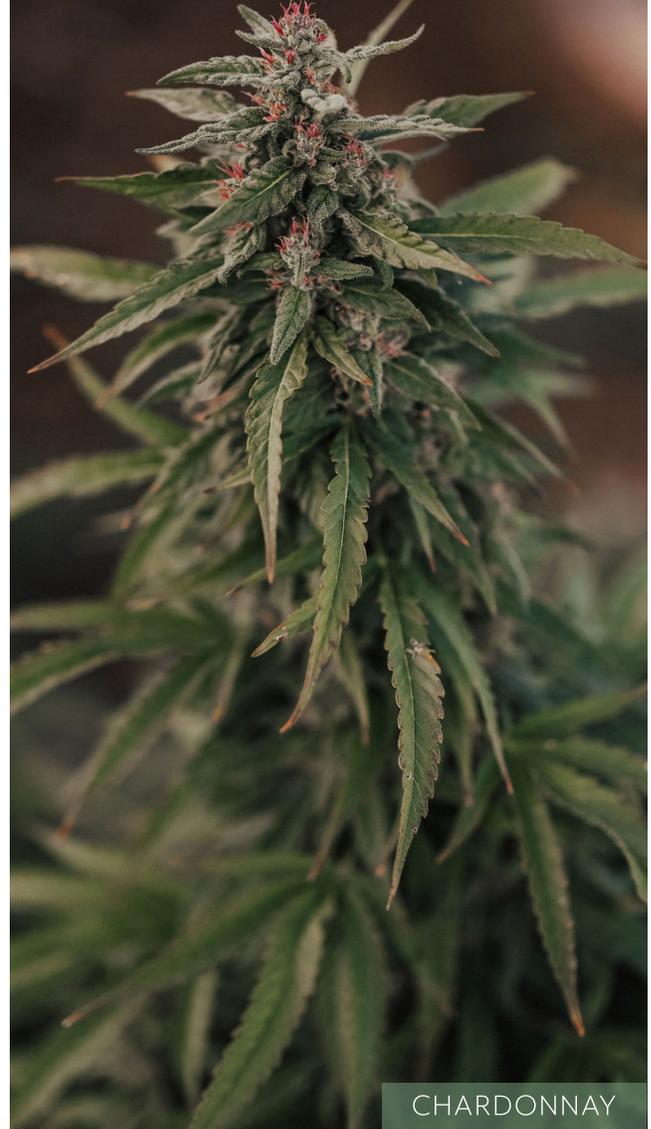
PALETTE: Expect a complex cherry floral frame layered with pine skunk undertones.

TROPHY WIFE

LINEAGE: Wife S1 x Cherry Wine

DESCRIPTION: This seed line is the champion of CBD resin production. By first reversing our CBD phenotype of "The Wife" to herself we conducted a S1 pheno hunt in search of a cut that finished a bit earlier with the high testing CBD content. We then paired her with our new 50:1 Cherry Wine male to compliment her progeny in both flavor and compound content. Expect top shelf bag appeal packed with an offensively loud terp profile.

PALETTE: Packed with loud cheesy terp profile. Heavy notes of cheese and skunk complimented by cherry undertones.



CHARDONNAY

LINEAGE: Black Rose (R4 x OttoBx1) x Cherry Wine

DESCRIPTION: The focus on the Chardonnay project was to increase the CBD content of our darkest purple varietal "Black Rose", and complement her with the potency and mouth watering terpene profiles that Cherry Wine expresses. This line has been used in industrial hemp cultivation since 2016. Phenotypes exhibit purple flower colorization by the time of harvest.

PALETTE: Expect piercing overtones of fresh strawberry rhubarb jam and candied raspberries.

WHO GROWS HIGH GRADE

We are committed to farming with the best.
Here are testimonials from a few of our farmers.



**“I was intrigued by the potential of hemp.
Since 2016, I’ve scaled my acreage with much
success. If you’re looking to grow high CBD
and compliant hemp, High Grade genetics
are the way to go.”**

- Dave A.



“Our largest plot has flowers swelling from top to bottom, and you can smell our farm for miles @highgradehempseed. Fast growing and fast flowering varieties don’t usually have high terpene traits, but @highgradehempseed has pulled it off. She is very resistant to our high winds/cold nights here in Montrose, CO.”

- John H.



“After experiencing crop failure with another genetics company, I turned to High Grade for help. My Berry Blossom™ and Cherry Wine™ plants this year exceeded expectations. Bring on CBG and 2021!”

- Patrick T.



Q & A

WITH BODHI URBAN,
FOUNDER OF HIGH GRADE HEMP SEED

For farmers converting fields or seasoned hemp growers elevating their quality and productivity, High Grade Hemp Seed (HG) provides a wealth of knowledge on genetics, farming best practices, and getting the most out of this industry. Our goal is to get you to the most successful outcomes.

WHY STARTING WITH HIGH GRADE GENETICS IS SO IMPORTANT?

We are committed to producing high quality feminized hemp seeds and hemp seed starts. When you're working with genetics like High Grade's, you can ensure you are starting with the right investment. We understand the demand in the marketplace. Contact our sales team and they can help you determine the best products to meet your needs.

WHAT IS THE GERMINATION RATE % OF HIGH GRADE SEED?

Based on tests in our lab and with CSU, the vast majority of our seed lots will germinate at above 95%. To us, quality control is of utmost importance. Our processes like pollinating indoors, SOP's for seed cleaning and QC help us provide you with the best seed possible. We look at every batch before it's delivered, and in 2021, we are going further, by implementing a seed priming process. Priming helps regulate the seed's temperature and moisture content. This brings the seed closer to the point of germination, further supporting our goal of consistency and product yield. We are registered as a seed seller and required by the Colorado Department of Agriculture to follow labeling and requirements for seed sold within our State. Each batch sold in Colorado will include a seed label that will include germination rates as well as other useful information. In addition, we provide extra seeds with each order to give you even more confidence.

WHAT IS THE CBD CONTENT OF EACH VARIETY?

Like with any varietal, CBD and CBG percentages may vary. Because we start with genetics, our goal is always to provide you with the best potential for success. End percentages are tough to quantify upfront as there are many variables to consider: techniques for growing, growing climate & conditions, harvest process, etc. We inform our process with testing, and recommend our customers do the same. We recommend Botanacor as a third party testing partner in Colorado.

ARE YOUR VARIETIES BELOW 0.3% THC?

Unlike other states, compliance has always been tightly regulated in Colorado, where laws dictating total THC levels and rigorous compliance testing have been part of hemp producers' long-standing standard operating procedures. We've been working within CDA requirements of total THC since 2016. We work with both third party and first party labs to provide you with compliant product. COA's are provided during the sale process. As with any crop, hemp requires care when growing, so we recommend developing a clear testing plan before you grow.

WHAT IS YOUR FEMINIZATION RATE?

Over the past four years, we've averaged a 99.98% female ratio in multi-million seed populations across the nation for field and greenhouse production. By purchasing true feminized seeds, you reduce the risk of males. With hemp, males and hermaphrodite plants can appear in any crop. Typically, we see about one male for 4,000-5,000 plants we grow. Ask about our SOP's to ensure males are culled quickly.



CAN I PLANT SEED DIRECTLY INTO THE GROUND OR SHOULD I TRANSPLANT?

We offer both seeds and seed starts to ensure that what you're planting has the best potential for success. Different regions call for different varieties. Primarily, this is dependent on photoperiods, especially with flower duration and how long it takes plants to mature. Talk to us about your region and we can help determine the best HG products for you.

DOES HIGH GRADE PROVIDE PROCESSING SERVICES?

Our focus is on everything seeds. There are many companies who focus primarily on processing. Reach out to us and we can help you connect with the right people.

WHAT DOES YOUR CONTRACT AGREEMENT INCLUDE?

All of our seeds are produced leveraging High Grade technologies. You are not allowed to breed, propagate, multiply, clone, sell or transfer our seeds. We take pride in our product and as many breeders will know, cross-breeding, cloning and third-party selling does not necessarily equate to a superior product and it often restricts our ability to control the process.

DO YOU REQUIRE A DEPOSIT?

We take our relationship with customers very seriously. In an effort to honor this, we do require a deposit upfront to make sure we get you seeds and/or starts, when you need them. With any business, pre-planning on behalf of both parties is preferred. HG will not reserve any seed until the deposit is received.

DO ALL HEMP CROPS NEED MONITORING NEAR THE END OF CROP?

Yes. New rules will mandate that you monitor plants closely towards harvest. We recommend that you have a harvest plan in place that can be executed based on the needs of the plant and COA's.

IS HEMP SUITED FOR MY GROWING AREA?

It's amazing to see how well hemp does in most regions. Since the Farm Bill was passed, many new states are now growing hemp and many more countries are also working to cultivate in their regions. To find out more about your region, we recommend speaking with your local Department of Agriculture and/or Agronomist.

WHAT IS YOUR SEED ORDER MINIMUM?

Our minimums vary based on varieties and pricing. Many of our varieties have MOQ as low as 1,000.

HOW DO I FIGURE OUT HOW MANY SEEDS TO BUY?

We're here to help you with that process. Once you determine your acreage, we can help inform which varieties and quantities will meet your needs.



“

“Seed Genetics just became more important for farmers. When working with High Grade’s genetics, you can rest assured that you’re starting in the right place and making the right investment.”

- Bodhi Urban, Founder

CONTACT US TO GET STARTED

info@highgradehempseed.com | (833) 867-7333 | HighGradeHempSeed.com



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* Percentages vary based on this result. See highgradehempseed.com for more information.



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