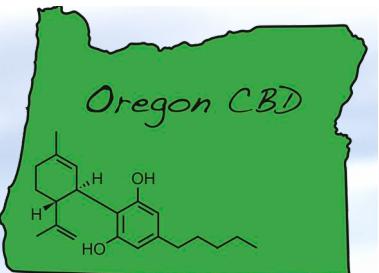


Industrial Hemp Seed  
Research and Development

2018 "Early" Series  
Official Seed Catalog



## Note from the Farm

The United States is now three years into federally legal, non-psychoactive cannabis production and the market shows no sign of slowing down. The revolution is getting harder to ignore! Nationally, farmed acreage more than doubled between 2016 and 2017. Oregon's total hemp acreage expanded dramatically again this year as well, surpassing the relatively small "adult use" production footprint for the first time—but buyers still cannot get enough high quality flower to meet demand. Farmers who can successfully navigate the pitfalls of large-scale cannabis production are reaping heady per acre yields and revenue, even as the overall price of cannabinoid-rich flowers decline. At \$50 per pound, skilled farmers can still gross over \$100k per acre. Few crops are capable of generating that kind of return. That said, successfully growing, harvesting, drying, and post-processing tons of cannabis is not easy or cheap. Knowledgeable farmers know that purchasing seed is the most important business decision they will make each year.

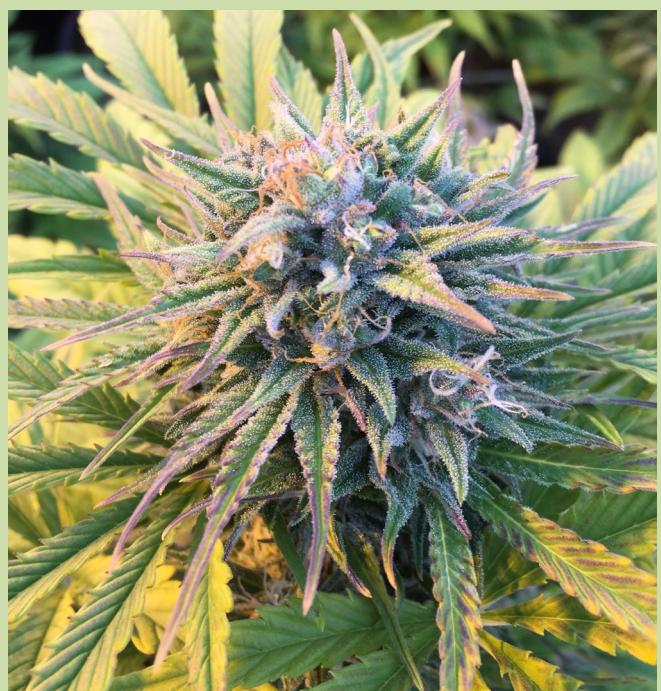
Using large-scale field trials, cutting edge genomic tools, and unique breeding techniques, our company is setting the industrial hemp seed standard. We are confident that our in-house research and development program is delivering the most agronomically useful, 100% type III hemp qualified varieties in the world, with 99.97% female plants resulting from our feminized seed. The "early" series varieties presented here are designed to deliver the highest possible CBD content, mouth-watering terpenes, and the earliest finishing times on the market, allowing farmers to harvest for a month straight in September before the weather turns wet. Our 2018 lineup excel as feedstock for extractors, but are also tailor-made for the emerging trimmed flower market.

From all of us here at Oregon CBD, thank you for your interest in our work. We're excited to share our newest creations with you and your farm as we collectively work to make the 21<sup>st</sup> century cannabis revolution a reality.



## *ERB- The Pollen Donor*

Our “early series” varieties all share the same (reversed) pollen donor: we call her “ERB,” which is short for “Early Resin Berry”. This plant has been under development for several years and was inbred repeatedly to lock-in three very specific, true-breeding traits that are always passed on to progeny: (1) early flower initiation, (2) complex sweet berry flavor notes, and (3) high resin and terpene content. We performed large-scale field trials on progeny derived from her in 2017; the results demonstrated to us that this could very well be the best breeding stock for outcrossing available right now—the hybrids truly live up to the hype! ERB flowers and fan leaves are coated in large, extremely sticky trichomes that are tacky to the touch. Calyxes are large with purple tinges regardless of temperature, and are completed by fire-orange pistils. The terpene profile is a complex sweet, citrus-berry smell that leaves your mouth watering. By pairing this pollinator with our select female production clones, farmers are guaranteed oil-rich plants that will begin flowering in early July (depending on your location in Oregon), have a robust structure that do not require any support, and have CBD to THC ratios above 20:1. The harvest window for all plants crossed with our ERB ranges from early to late September in Oregon; this allows farmers to systematically harvest plants as they mature for over a month straight, maximizing the efficiency of drying space, labor inputs, and late summer solar intensity. We are proud to offer farmers the fruits of our R&D labor in hybrid seed form!



## *Special Sauce 2018*

*(Special Sauce x ERB)*

Our flagship returns for 2018 with more exotic astringent berry smells, beautiful pink pistils, and some of the highest oil returns of any industrial hemp on the planet. The flavors are otherworldly. Many claim to have “it”—trust us, they don’t! This mom has never been released and is only used for breeding. Her true F1 progeny are testaments to what is possible with terpenes in cannabis. Flowers are smaller than others we offer, but end up very dense and coated in glistening resin. This is a top-seller in the international trimmed flower market and peerless for full spectrum oil extraction. She has the lowest yields of all our lines, but possesses the highest average CBD content. It is a true gift to smell a whole field flowering!



## Lifter

(SH50 x ERB)



Our goal was to develop an extremely high oil content hemp plant with dense, weighty flowers. After the initial cross (our Special Sauce mom to a very high content, new world Haze line), we honed in on our target after 2 additional generations of inbreeding and careful selection to remove unwanted chemo- and phenotypes. The resulting mom has incredible vegetative vigor and grows like a bush with rock-hard flowers. The resulting cross of SH50 and ERB gives us Lifter (in homage to the famous heirloom tomato, Mortgage Lifter). Farmers will be rewarded with vigorous bushy, upright growth patterns in the vegetative phase that can easily fill 6' centers. By late August (45N), fields will be full of large, oily “goldilocks” buds, perfect for the international trimmed hemp flower market. The flavor is sweet funk, with some hints of fuel—very sought after by consumers! Pound for pound, this just might be the most lucrative trimmed flower producer available.

## Hawaiian Haze

(DC Haze "CC" x ERB)

The parallel goals of this project were to (1) create the highest CBD oil content plant possible and (2) design a CBD line capable of thriving in equatorial photoperiod / climatic conditions—we did this with the mom, then designed an outcrossing program to make tropical hybrids possible in Oregon. Initially, we crossed the publicly available ACDC plant with our selected Neville's Haze male. After two generations of breeding, the chemotype was stabilized and progeny field trials were conducted on the 9 outstanding phenotypes (i.e. sisters). Of those, the hybrids derived from our “CC” mother plant stood out as the clear winner. Visitors to our field trials gravitated towards her progeny in particular and reminisced about the truly special flavors that used to emanate from imported Hawaiian flowers (beta-carypholene and humulene dominate the terpene profile). Hawaiian Haze brings farmers a unique opportunity to grow equatorially-inspired, long season flavors at 45N and to do so with large yielding, modern hybrid flower structure.



## *Elektra*

(ACDC x ERB)

ACDC is the famous Cannatonic phenotype that helped revolutionize west coast CBD production. She is the backbone of many high CBD crosses due to her availability, high resin content, and strong terpenes. In addition, the line has been publicly genotyped (very heterozygous!). As a clone, she is not worth the effort for field production, as her stalks lack the strength to support late-season flowers, especially in the wind and rain. We have conducted field trials on many different outcrossing combinations with her over the years and have found that ACDC is the most useful to hemp farmers when hybridized in our “early” breeding program. Our particular pairing produces the best chance at successful recombination; in other words, we figured out how to consistently bulk up flowers, flower early, strengthen the stalk, narrow the variability in total cannabinoids, and improve terpene desirability in her F1 progeny. The result is one of the most potent—CBD or otherwise—seed lines available in world, but in field-ready form.



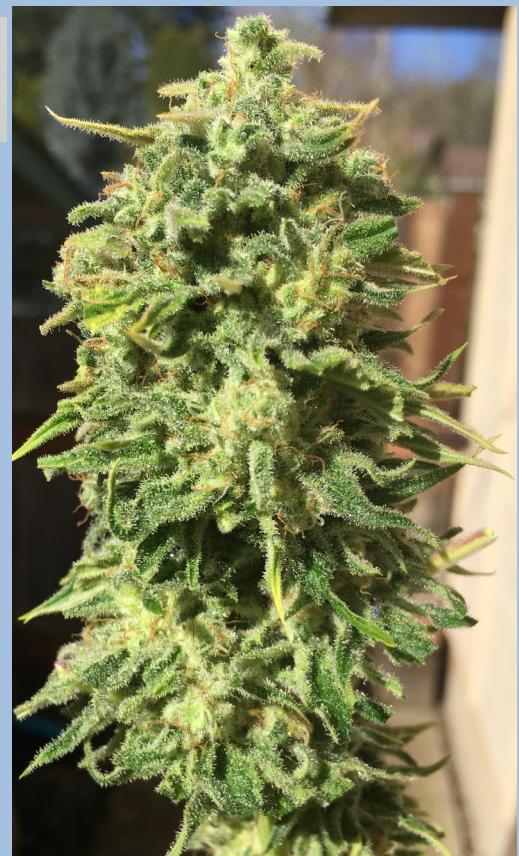
## *Suver Haze*

(Suver #8 x ERB)

Suver Haze is a very special variety. Our first legitimate R&D facility is located along Suver Road, in the former epicenter of Oregon grass seed development. The area has a rich farming and social history and we offer this as our contribution to the legend. After crossing our “Special Sauce” mom with our select (THC) Neville’s Haze male in 2015, an open pollination was conducted with 40 F1 siblings. When the resulting F2 seeds were grown out and chemotyped, only 1 plant out of 72 females in the test grow was a type III hemp plant (~25% should have been). We knew from the beginning that there was something special about this plant! After flowering her in greenhouses this past summer for the first time, she moved from “special” to “legend” status. Our Suver #8 mom has the most unique and intoxicating terpene profile we’ve smelled in a CBD line. Hybridizing with the ERB line will make outdoor harvests possible. Expect dense, trimmable nuggets that will command the highest returns available in the trimmed flower market.



*Available Spring 2018*



## Pine Berry

(Ringo's Gift x ERB)

*Limited  
Release!*

The “Ringo’s Gift” cut (ACDC x Harle-Tsu) we were gifted several years ago has won multiple west coast concentrate cups for its sharply sappy, Douglas fir terpene profile and high resin content. The line was originally developed by Lawrence Ringo before his passing. The few growers lucky enough to hold this cut value it for its sturdy, upright growth structure, large, early yields, and pleasantly loud terpenes. Outcrossing this polyhybrid to our ERB line imbues the resulting progeny with our characteristic early flowering (even earlier than the clone), while sweetening and expanding the flavor profile. Plants in this line will maintain the same upright structure and carry our trademark high terpene content resin, making this superstar hybrid a contender for the highest oil yields around.

Stock is very limited on this variety and we will not be releasing additional seed in 2018!



## Sour Space Candy

(Sour Tsunami x ERB)

*Limited  
Release!*

The CBD-dominant Sour Tsunami cut used in this cross has the strongest stalk of any plant we have grown and sports a unique, terpinolene-forward flavor similar to GG4 and the Sour Diesel / Chem / OG lines. Outcrossing this variety to our ERB line yields a unique flavor profile reminiscent of sour candy from outer space. If interstellar travelers needed a sweet and sour snack to keep their head right during adventures, this would be the one! Lucky growers will be rewarded with rock-hard, golf ball-sized flowers that will stay intact, even when subjected to large-scale machine trimming. Despite its good botrytis resistance, producing flowers with this type of structure would not be feasible in Oregon without our early flowering characteristic, so definitely be aware of impending rain storms as plants finish up throughout September.

Stock is very limited on this variety and we will not be releasing additional seed in 2018!



## *Frequently Asked Questions*

Please take a minute to read over the technical white papers we have released over the past year. We strive to provide the most technically accurate and up-to-date information available in the hemp industry. If your questions are not answered on our web site or in these FAQs, please contact us directly. Longer responses on major questions (THC limits and feminized seed), along with other research and farm planning tools, can be found on our web site (<http://oregoncbdseeds.com>).

### **Q: Is there a minimum order?**

A: Yes, 5000 seed minimum. Roughly 2.5 acres. We focus on farmers, not hobby growers.

### **Q: Can I put money down to reserve seed?**

A: No. Payment in full and a current hemp registration is required to secure seed.

### **Q: Can I give / sell / transfer seeds to \_\_\_\_\_ ?**

A: No. Every buyer must sign our Material Transfer Agreement, which prohibits the resale or transfer of purchased seed. The MTA also prohibits the use of our seed as breeding stock or for clone sales.

### **Q: I need xxx million seed for 70k acres. Do I get a discount?**

A: No, equal playing field for all--\$1 a seed. We are asking anyone who requires 100k seeds or more to schedule an appointment with us and have ½ payment down before January 1, 2018 to secure large quantities of seed for 2018. Also, are you sure you can harvest and dry thousands of acres?

### **Q: Do you help farmers sell their crops?**

A: No. When opportunities for large sales arise with vetted buyers, we share information with our seed clients who may have material for sale; however, we DO NOT provide brokerage services. We encourage every farmer to establish his or her own markets.

### **Q: I / We want to collaborate with your company.**

A: We do not engage in collaborative projects with individuals or companies. Thank you for your interest, but we already have a lifetime of work to sift through in our R&D seed vault. Please contact us early on in our next incarnation.

### **Q: How do I pay?**

A: We are a federally legal business. We accept check, credit / debit card, and cash. No cash transactions over \$10k without an IRS form 8300!

### **Q: Are these seeds feminized?**

A: YES! Our process results in 99.97% female plants from seed. 1 in 4000 are male (roughly 1 every 2 acres). Over 600 acres were produced in Oregon in 2017 with our feminized seed--these are results that you can trust. Read more details [here](#).

### **Q: What is the average CBD content?**

A: These are the highest content plants available for farming industrial hemp, but the question is impossible to accurately answer due to individual differences in farming practices, ecological variation, and inter-lab variability. When properly grown, dried, and trimmed, the average resulting CBD content will be about 15% when tested by accredited Oregon laboratories. We have received test results over 20% from unaccredited labs (out of state). This is the case for all offered varieties. In short, we offer incredibly high content plants, but it's up to the farmer to coax resin from the soil!

### **Q: Are your varieties below 0.3% THC?**

A: In short, yes. All of our varieties will pass Oregon Dept. of Agriculture THC requirements when sampled at the appropriate time. The more detailed explanation can be found [here](#).

### **Q. What happens if I make a cross with your seed?**

A: We produce true F1 seed for specific characteristics. Knowledgeable plant breeders will understand that our work cannot be replicated via outcrossing or inbreeding particularly our trademarked and patent-pending "early" flowering characteristic. Save yourself a failed season.